



## Product Catalog for Distribution 2012



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## Introduction

We are pleased to present the updated Product Catalog for Distribution 2012. This catalog outlines the full range of semiconductors available from Infineon Technologies through our distribution channel.

Reflecting the depth and range of our offering, this overview extends from communication devices and microcontrollers through power semiconductors and discretes to sensors and security solutions. For fast and easy reference, we have kept technical details to a minimum and added an overview of all device names and order codes at the back. Please refer to our data sheets, data books and user's manuals if you require in-depth technical data on a given product.

We work closely with our distributors to ensure that these products are available for rapid delivery. However, please be aware that individual distributors may not necessarily be authorized to offer the entire range of products outlined in this catalog. The choice of products held in stock and available for delivery is entirely at the discretion of the individual distributor. Please note that most products listed in this overview are RoHS-compliant. However, please check the actual status and availability with your distributor. Similarly, Infineon does not assume responsibility for the accuracy or completeness of the information contained in this overview.

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For a complete list of our distribution partners, please go to [www.infineon.com/distribution](http://www.infineon.com/distribution).

## Explanation of Symbols

- ▼ Newly included components
- Components not suitable for new design
- ◆ Products available through dedicated distributors
- SMD (Surface Mounted Devices)  
gray lines indicate SMDs
- ® Registered trademark
- ™ Trademark

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## Microcontrollers

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Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family</b>				
<b>XC822 &amp; XC824 Series</b>				
SAF-XC822-1FRA AA-Step	SP000873390	XC8221FRAAFXUMA1	PG-TSSOP-16-1	High performance XC800 core, based on industry standard 8051 architecture, 8-Kbyte boot ROM, 4-Kbyte program flash, 0.128-Kbyte data flash, automotive quality level, 256-byte RAM, 256-byte XRAM, capture/compare unit, three 16-bit timers/counters, four 10-bit ADC channels, embedded voltage regulator (EVR), programmable 16-bit watchdog timer, no multiplication/division unit (MDU), no LED and touch sense controller (LEDTSCU), 24-MHz clock frequency, -40°C to 85°C, tape & reel
SAF-XC822-1FRI AA-Step	SP000795354	XC8221FRIAAFXUMA1	PG-TSSOP-16-1	as SAF-XC822-1FRA, industry quality level, tape & reel
SAK-XC822-1FRA AA-Step	SP000873388	XC8221FRAAKXUMA1	PG-TSSOP-16-1	as SAF-XC822-1FRA, -40°C to 125°C, tape & reel
SAF-XC822M-1FRI AA-Step	SP000771768	XC822M1FRIAAFXUMA1	PG-TSSOP-16-1	as SAF-XC822-1FRA, industry quality level, multiplication/division unit (MDU), no LED and touch sense controller (LEDTSCU), tape & reel
▼ SAK-XC822MT-0FRA AA-Step	SP000898396	XC822MT0FRAAKXUMA1	PG-TSSOP-16-1	as SAF-XC822-1FRA, 2-Kbyte program flash, multiplication/division unit (MDU), LED and touch sense controller (LEDTSCU), -40°C to 125°C, tape & reel
SAF-XC822MT-1FRA AA-Step	SP000873396	XC822MT1FRAAFXUMA1	PG-TSSOP-16-1	as SAK-XC822MT-0FRA, 4-Kbyte program flash, -40°C to 85°C, tape & reel
SAF-XC822MT-1FRI AA-Step	SP000795358	XC822MT1FRIAAFXUMA1	PG-TSSOP-16-1	as SAF-XC822MT-1FRA, industry quality level, tape & reel
SAK-XC822MT-1FRA AA-Step	SP000877976	XC822MT1FRAAKXUMA1	PG-TSSOP-16-1	as SAF-XC822MT-1FRA, -40°C to 125°C, tape & reel
SAF-XC822T-0FRI AA-Step	SP000795350	XC822T0FRIAAFXUMA1	PG-TSSOP-16-1	as SAF-XC822MT-1FRI, 2-Kbyte program flash, no multiplication/division unit (MDU), LED and touch sense controller (LEDTSCU), tape & reel
SAF-XC822T-1FRI AA-Step	SP000797572	XC822T1FRIAAFXUMA1	PG-TSSOP-16-1	as SAF-XC822-1FRI, no multiplication/division unit (MDU), LED and touch sense controller (LEDTSCU), tape & reel
SAF-XC824M-1FGI AA-Step	SP000771770	XC824M1FGIAAFXUMA1	PG-DSO-20-45	as SAF-XC822T-1FRI, DSO package, multiplication/division unit (MDU), no LED and touch sense controller (LEDTSCU), tape & reel
SAK-XC824M-1FGI AA-Step	SP000776846	XC824M1FGIAAKXUMA1	PG-DSO-20-45	as SAF-XC824M-1FGI, -40°C to 125°C, tape & reel
SAF-XC824MT-1FGI AA-Step	SP000795362	XC824MT1FGIAAFXUMA1	PG-DSO-20-45	as SAF-XC824M-1FGI, multiplication/division unit (MDU), LED and touch sense controller (LEDTSCU), tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family XC835 &amp; XC836 Series</b>				
SAF-XC835MT-2FGI AB-Step	SP000843552	XC835MT2FGIABFXUMA1	PG-DSO-24-1	High performance XC800 core, based on industry standard 8051 architecture, 8-Kbyte boot ROM, 8-Kbyte program flash, 0.128-Kbyte data flash, industry quality level, 256-byte RAM, 256-byte XRAM, capture/compare unit, three 16-bit timers/counters, eight 10-bit ADC channels, 16-bit vector computer for Field-Oriented Control (FOC), programmable 16-bit watchdog timer, multiplication/division unit (MDU) and CORDIC module, LED and touch sense controller (LEDTSCU), 24-MHz clock frequency, -40°C to 85°C, tape & reel
SAF-XC836-2FRI AB-Step	SP000843562	XC8362FRIABFXUMA1	PG-TSSOP-28-1	as SAF-XC835MT-2FGI, TSSOP package, no multiplication/division unit (MDU), no LED and touch sense controller (LEDTSCU), 24-MHz clock frequency, -40°C to 85°C, tape & reel
SAF-XC836M-1FRI AB-Step	SP000843556	XC835M1FRIABFXUMA1	PG-TSSOP-28-1	as SAF-XC836-2FRI, 4-Kbyte program flash, multiplication/division unit (MDU) and CORDIC module, no LED and touch sense controller (LEDTSCU), tape & reel
SAF-XC836M-2FRI AB-Step	SP000843558	XC836M2FRIABFXUMA1	PG-TSSOP-28-1	as SAF-XC836-2FRI, multiplication/division unit (MDU) and CORDIC module, no LED and touch sense controller (LEDTSCU), tape & reel
▼ SAK-XC836MT-1FRA AB-Step	SP000848856	XC836MT1FRAABFXUMA1	PG-TSSOP-28-1	as SAF-XC836M-1FRI, automotive quality level, multiplication/division unit (MDU) and CORDIC module, LED and touch sense controller (LEDTSCU), -40°C to 125°C, tape & reel
▼ SAK-XC836MT-2FRA AB-Step	SP000847972	XC836MT2FRAABFXUMA1	PG-TSSOP-28-1	as SAK-XC836MT-1FRA, 8-Kbyte program flash, tape & reel
SAF-XC836MT-2FRI AB-Step	SP000843560	XC836MT2FRIABFXUMA1	PG-TSSOP-28-1	as SAF-XC836M-2FRI, multiplication/division unit (MDU) and CORDIC module, LED and touch sense controller (LEDTSCU), tape & reel
SAF-XC836T-2FRI AB-Step	SP000843554	XC836T2FRIABFXUMA1	PG-TSSOP-28-1	as SAF-XC836MT-2FRI, no multiplication/division unit (MDU) and CORDIC module, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family</b>				
<b>XC864 &amp; XC866 Series</b>				
SAK-XC864L-1FRI 5V AA-Step	SP000449902	XC864L1FRI5VAAKXUMA1	PG-TSSOP-20-1	High performance XC800 core, based on industry standard 8051 architecture, 8-Kbyte boot ROM, 4-Kbyte program flash, up to 8-Kbyte data flash, industry quality level, 256-byte RAM, 512-byte XRAM, capture/compare unit, three 16-bit timers/counters, 10-bit ADC, embedded voltage regulator (EVR), watchdog circuit with RESET generation, watchdog timer, with LIn BSL support, 5-V power supply, -40°C to 125°C, tape & reel
SAK-XC866-1FRA AB-Step	SP000235420	XC8661FRAABKXUMA1	PG-TSSOP-38-1	High performance XC800 core, based on industry standard 8051 architecture, 8-Kbyte boot ROM, 4-Kbyte program flash, up to 8-Kbyte data flash, automotive quality level, 256-byte RAM, 512-byte XRAM, capture/compare unit, three 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, -40°C to 125°C, tape & reel
SAF-XC866-1FRI AB-Step	SP000244527	XC8661FRIABFXUMA1	PG-TSSOP-38-1	as SAK-XC866-1FRA, industry quality level, -40°C to 85°C, tape & reel
SAK-XC866-1FRI AB-Step	SP000244528	XC8661FRIABKXUMA1	PG-TSSOP-38-1	as SAF-XC866-1FRI, -40°C to 125°C, tape & reel
SAA-XC866-2FRA BE-Step	SP000281789	XC8662FRA5VBEAXUMA1	PG-TSSOP-38-1	as SAF-XC866-1FRA, 8-Kbyte program flash, -40°C to 140°C, tape & reel
SAF-XC866-2FRA BE-Step	SP000281796	XC8662FRABEFXUMA1	PG-TSSOP-38-1	as SAA-XC866-1FRA, -40°C to 85°C, tape & reel
SAK-XC866-2FRA BE-Step	SP000272971	XC8662FRABEKXUMA1	PG-TSSOP-38-1	as SAF-XC866-2FRA, -40°C to 125°C, tape & reel
SAF-XC866-2FRI BE-Step	SP000245777	XC8662FRIBEFXUMA1	PG-TSSOP-38-1	as SAF-XC866-2FRA, industry quality level, tape & reel
SAK-XC866-2FRI BE-Step	SP000245783	XC8662FRIBEKXUMA1	PG-TSSOP-38-1	as SAF-XC866-2FRI, -40°C to 125°C, tape & reel
SAA-XC866-4FRA BE-Step	SP000281792	XC8664FRA5VBEAXUMA1	PG-TSSOP-38-1	as SAA-XC866-2FRA, 16-Kbyte program flash, tape & reel
SAF-XC866-4FRA BE-Step	SP000281799	XC8664FRABEFXUMA1	PG-TSSOP-38-1	as SAA-XC866-2FRA, -40°C to 85°C, tape & reel
SAK-XC866-4FRA BE-Step	SP000245770	XC8664FRABEKXUMA1	PG-TSSOP-38-1	as SAF-XC866-4FRA, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family</b>				
<b>XC864 &amp; XC866 Series</b>				
(cont'd)				
▼ SAL-XC866-4FRA 3V BE-Step	SP000908370	XC8664FRA3VBELXUMA1	PG-TSSOP-38-1	as SAF-XC866-4FRA, 3-V power supply, -40°C to 150°C, tape & reel
▼ SAL-XC866-4FRA 5V BE-Step	SP000876776	XC8664FRA5VBELXUMA1	PG-TSSOP-38-1	as SAL-XC866-4FRA, 5-V power supply, tape & reel
SAF-XC866-4FRI BE-Step	SP000245780	XC8664FRIBEFXUMA1	PG-TSSOP-38-1	as SAF-XC866-4FRA, industry quality level, tape & reel
SAK-XC866-4FRI BE-Step	SP000245786	XC8664FRIBEKXUMA1	PG-TSSOP-38-1	as SAF-XC866-4FRI, -40°C to 125°C, tape & reel
SAF-XC866-2RRA AB-Step	SP000232712	XC8664RRAABAZZA1	PG-TSSOP-38-1	High performance XC800 core, based on industry standard 8051 architecture, 8-Kbyte ROM, 8-Kbyte boot ROM, 8-Kbyte program flash, up to 8-Kbyte data flash, automotive quality level, 256-byte RAM, 512-byte XRAM, capture/compare unit, three 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, -40°C to 85°C, tape & reel
SAK-XC866-2RRA AB-Step	SP000232708	XC8662RRAABKZZA1	PG-TSSOP-38-1	as SAF-XC866-2RRA, -40°C to 125°C, tape & reel
SAA-XC866-4RRA AB-Step	SP000266176	XC8664RRAABAZZA1	PG-TSSOP-38-1	as SAF-XC866-2RRA, 16-Kbyte ROM, -40°C to 140°C, tape & reel
SAF-XC866-4RRA AB-Step	SP000232710	XC8664RRAABFZZA1	PG-TSSOP-38-1	as SAA-XC866-4RRA, -40°C to 85°C, tape & reel
SAK-XC866-4RRA AB-Step	SP000232706	XC8664RRAABKZZA1	PG-TSSOP-38-1	as SAF-XC866-4RRA, -40°C to 125°C, tape & reel

## XC866L Series

SAK-XC866L-1FRA AB-Step	SP000235421	XC866L1FRAABKXUMA1	PG-TSSOP-38-1	High performance XC800 core, based on industry standard 8051 architecture, 8-Kbyte boot ROM, 4-Kbyte program flash, up to 8-Kbyte data flash, automotive quality level, 256-byte RAM, 512-byte XRAM, capture/compare unit, three 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, with LIN BSL support, -40°C to 125°C, tape & reel
▼ SAL-XC866L-2FRA 3V BE-Step	SP000915406	XC866L2FRA3VBELXUMA1	PG-TSSOP-38-1	as SAK-XC866L-1FRA, 8-Kbyte program flash , 3-V power supply, -40°C to 150°C, tape & reel
▼ SAL-XC866L-2FRA 5V BE-Step	SP000914682	XC866L2FRA5VBELXUMA1	PG-TSSOP-38-1	as SAL-XC866L-2FRA, 5-V power supply, tape & reel
SAK-XC866L-4FRA BE-Step	SP000245771	XC866L4FRABEKXUMA1	PG-TSSOP-38-1	as SAF-XC866L-1FRA, 16-Kbyte flash (12-Kbyte program flash, 4-Kbyte data flash), tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family</b>				
<b>XC866L Series</b>				
(cont'd)				
SAK-XC866L-4FRA 3V BE-Step	SP000442054	XC866L4FRA3VBEKXUMA1	PG-TSSOP-38-1	as SAK-XC866L-4FRA, 3-V power supply, tape & reel
▼ SAL-XC866L-4FRA 3V BE-Step	SP000908378	XC866L4FRA3VBELXUMA1	PG-TSSOP-38-1	as SAK-XC866L-4FRA 3V, -40°C to 150°C, tape & reel
▼ SAL-XC866L-4FRA 5V BE-Step	SP000876778	XC866L4FRA5VBELXUMA1	PG-TSSOP-38-1	as SAL-XC866L-4FRA, 5-V power supply, tape & reel
SAK-XC866L-4FRI BE-Step	SP000245787	XC866L4FRIBEKXUMA1	PG-TSSOP-38-1	as SAK-XC866L-4FRA, industry quality level, tape & reel

**XC874 Series**

▼ SAK-XC874-13FVA 5V AC-Step	SP000858084	XC87413FVA5VACKXUMA1	PG-VQFN-48-1	High performance XC800 core, based on industry standard 8051 architecture, 52-Kbyte flash memory, automotive quality level, 256-byte RAM, 3-Kbyte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), 5-V power supply, 26.7-MHz clock frequency, -40°C to 125°C, tape & reel
▼ SAK-XC874-16FVA 5V AC-Step	SP000858089	XC87416FVA5VACKXUMA1	PG-VQFN-48-1	as SAF-XC874-13FVA, 64-Kbyte flash memory, tape & reel
▼ SAK-XC874CLM-16FVA5V AC-Step	SP000858092	XC874CLM16FVA5VACKXUMA1	PG-VQFN-48-1	as SAK-XC874-13FVA 5V, with LIN BSL support , with CAN- and MDU module, 5-V power supply, 26.7-MHz clock frequency, -40°C to 125°C, tape & reel
▼ SAK-XC874CM-13FVA 5V AC-Step	SP000793736	XC874CM13FVA5VACKXUMA1	PG-VQFN-48-1	as SAK-XC874CLM-16FVA5V, 52-Kbyte flash memory, no LIN BSL support, tape & reel
▼ SAK-XC874CM-16FVA 5V AC-Step	SP000858090	XC874CM16FVA5VACKXUMA1	PG-VQFN-48-1	as SAK-XC874CM-13FVA 5V, 64-Kbyte flash memory, tape & reel
▼ SAK-XC874LM-13FVA 5V AC-Step	SP000858082	XC874LM13FVA5VACKXUMA1	PG-VQFN-48-1	as SAK-XC874CLM-16FVA 5V, 52-Kbyte flash memory, no CAN module, tape & reel
▼ SAK-XC874LM-16FVA 5V AC-Step	SP000858086	XC874LM16FVA5VACKXUMA1	PG-VQFN-48-1	as SAK-XC874LM-13FVA 5V, 64-Kbyte flash memory, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family</b>				
<b>XC878 Series</b>				
SAF-XC878-13FFA 5V AC-Step	SP000756808	XC87813FFA5VACFXUMA1	PG-LQFP-64-1	High performance XC800 core, based on industry standard 8051 architecture, 52-Kbyte flash memory, automotive quality level, 256-byte RAM, 3-Kbyte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), 26.7-MHz clock frequency, 5-V power supply, -40°C to 85°C, tape & reel
SAK-XC878-13FFA 5V AC-Step	SP000847062	XC87813FFA5VACKXUMA1	PG-LQFP-64-1	as SAF-XC878-13FFA 5V , -40°C to 125°C, tape & reel
SAF-XC878-16FFI 5V AC-Step	SP000696772	XC87816FFI5VACFXUMA1	PG-LQFP-64-1	as SAF-XC878-13FFI 5V, 64-Kbyte flash memory, industry quality level, tape & reel
SAK-XC878-16FFA 5V AC-Step	SP000847066	XC87816FFA5VACKXUMA1	PG-LQFP-64-1	as SAF-XC878-16FFA 5V, -40°C to 125°C, tape & reel
SAK-XC878CLM-16FFA 5V AC-Step	SP000761974	XC878CLM16FFA5VACKXUMA1	PG-LQFP-64-1	as SAF-XC878-13FFA 5V, 64-Kbyte flash memory, with LIN BSL support, with CAN- and MDU module, -40°C to 125°C, tape & reel
SAX-XC878CLM-16FFA5V AC-Step	SP000608972	XC878CLM16FFA5VACXXUMA1	PG-LQFP-64-1	as SAK-XC878CLM-16FFA 5V, -40°C to 105°C, tape & reel
SAF-XC878CM-16FFA 5V AC-Step	SP000772210	XC878CM16FFA5VACFXUMA1	PG-LQFP-64-1	as SAK-XC878CLM-16FFA 5V, no LIN BSL support, -40°C to 85°C, tape & reel
SAK-XC878CM-16FFA 5V AC-Step	SP000847064	XC878CM16FFA5VACKXUMA1	PG-LQFP-64-1	as SAF-XC878CM-16FFA 5 V, -40°C to 125°C, tape & reel
SAX-XC878CM-16FFA 5V AC-Step	SP000409562	XC878CM16FFA5VACXXUMA1	PG-LQFP-64-1	as SAK-XC878CM-16FFA 5V, -40°C to 105°C, tape & reel
SAF-XC878CM-16FFI 3V3 AC-Step	SP000696786	XC878CM16FFI3V3ACFXUMA1	PG-LQFP-64-1	as SAF-XC878CM-16FFA 5V, industry quality level, 3.3-V power supply, tape & reel
SAF-XC878CM-16FFI 5V AC-Step	SP000679860	XC878CM16FFI5VACFXUMA1	PG-LQFP-64-1	as SAF-XC878CM-16FFI 3V3, 5-V power supply, tape & reel
SAF-XC878M-13FFI 3V3 AC-Step	SP000696774	XC878M13FFI3V3ACFXUMA1	PG-LQFP-64-1	as SAF-XC878CM-16FFI 3V3, 52-Kbyte flash memory, with MDU module, no CAN module, tape & reel
SAF-XC878M-16FFI 3V3 AC-Step	SP000696778	XC878M16FFI3V3ACFXUMA1	PG-LQFP-64-1	as SAF-XC878M-13FFI 3V3, 64-Kbyte flash memory, tape & reel
SAF-XC878M-16FFI 5V AC-Step	SP000696780	XC878M16FFI5VACFXUMA1	PG-LQFP-64-1	as SAF-XC878M-16FFI 3V3, 5-V power supply, tape & reel
SAX-XC878LM-13FFA 5V AC-Step	SP000447320	XC878LM13FFA5VACXXUMA1	PG-LQFP-64-1	as SAF-XC878M-13FFI 3V3, automotive quality level, with LIN BSL support and MDU module, 5-V power supply, -40°C to 105°C, tape & reel
SAK-XC878LM-16FFA 5V AC-Step	SP000844190	XC878LM16FFA5VACKXUMA1	PG-LQFP-64-1	as SAX-XC878LM-13FFA 5V, 64-Kbyte flash memory, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family</b>				
<b>XC886 Series</b>				
SAK-XC886-6FFA 5V AC-Step	SP000210978	XC8866FFA5VACKXUMA1	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), -40°C to 125°C, tape & reel
▼ SAK-XC886-6FFI 5V AC-Step	SP000607948	XC8866FFI5VACFXUMA1	PG-TQFP-48-4	as SAK-XC886-6FFA 5 V, industry quality level, tape & reel
SAF-XC886-8FFI 5V AC-Step	SP000607054	XC8868FFI5VACFXUMA1	PG-TQFP-48-4	as SAK-XC886-6FFA 5V, 32-Kbyte flash memory, industry quality level, -40°C to 85°C, tape & reel
SAK-XC886-8FFI 5V AC-Step	SP000607058	XC8868FFI5VACKXUMA1	PG-TQFP-48-4	as SAF-XC886-8FFI, -40°C to 125°C, tape & reel
SAF-XC886C-6FFA 5V AC-Step	SP000607068	XC886C6FFA5VACFXUMA1	PG-TQFP-48-4	as SAK-XC886-6FFA 5V, MultiCAN with 2 nodes, -40°C to 85°C, tape & reel
SAK-XC886C-6FFA 5V AC-Step	SP000607004	XC886C6FFA5VACKXUMA1	PG-TQFP-48-4	as SAF-XC886C-6FFA, -40°C to 125°C, tape & reel
SAF-XC886C-6FFI 3V3 AC-Step	SP000655548	XC886C6FFI3V3ACFXUMA1	PG-TQFP-48-4	as SAF-XC886C-6FFA, industry quality level, 3.3-V power supply, tape & reel
SAF-XC886C-6FFI 5V AC-Step	SP000607056	XC886C6FFI5VACFXUMA1	PG-TQFP-48-4	as SAF-XC886C-6FFA, industry quality level, 5-V power supply, tape & reel
SAK-XC886C-8FFA 5V AC-Step	SP000606668	XC886C8FFA5VACKXUMA1	PG-TQFP-48-4	as SAF-XC886C-6FFA 5V, 32-Kbyte flash memory, -40°C to 125°C, tape & reel
SAF-XC886C-8FFI 5V AC-Step	SP000607010	XC886C8FFI5VACFXUMA1	PG-TQFP-48-4	as SAK-XC886C-8FFA, industry quality level, -40°C to 85°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family</b>				
<b>XC886CLM Series</b>				
SAA-XC886CLM-8FFFA AC-Step	SP000618282	XC886CLM8FFAACAXUMA1	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with LIN BSL support, with CAN- and MDU module, -40°C to 140°C, tape & reel
SAK-XC886CLM-8FFFA 5V AC-Step	SP000606750	XC886CLM8FFA5VACKXUMA1	PG-TQFP-48-4	as SAA-XC886CLM-8FFFA, -40°C to 125°C, 5-V power supply, tape & reel
SAL-XC886CLM-8FFFA 5V AC-Step	SP000829526	XC886CLM8FFA5VACLXUMA1	PG-TQFP-48-4	as SAK-XC886CLM-8FFFA, -40°C to 150°C, tape & reel

## XC886CM Series

SAF-XC886CM-6RFA	SP000254732	XC886CM6RFAFZZA1	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte ROM, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with CAN- and MDU module, -40°C to 85°C, tape & reel
SAK-XC886CM-6RFA 5V AA-Step	SP000245804	XC886CM6RFA5VAAKZZA1	PG-TQFP-48-4	as SAF-XC886CM-6RFA, 5-V power supply, -40°C to 125°C, tape & reel
SAA-XC886CM-8FFFA AC-Step	SP000639468	XC886CM8FFA5VACAXUMA1	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with CAN- and MDU module, -40°C to 140°C, tape & reel
SAK-XC886CM-8FFFA 3V3 AC-Step	SP000607082	XC886CM8FFA3V3ACKXUMA1	PG-TQFP-48-4	as SAA-XC886CM-8FFFA, -40°C to 125°C, 3.3-V power supply, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family</b>				
<b>XC886CM Series</b>				
(cont'd)				
SAL-XC886CM-8FFA AC-Step	SP000844270	XC886CM8FFA5VACLXUMA1	PG-TQFP-48-4	as SAA-XC886CM-8FFA, -40°C to 150°C, tape & reel
SAK-XC886CM-8FFA 5V AC-Step	SP000606964	XC886CM8FFA5VACKXUMA1	PG-TQFP-48-4	as SAF-XC886CM-8FFA, 40°C to 125°C, tape & reel
SAF-XC886CM-8FFI 5V AC-Step	SP000607014	XC886CM8FFI5VACFXUMA1	PG-TQFP-48-4	as SAF-XC886CM-8FFA, industry quality level, tape & reel
SAF-XC886CM-8RFA AA-Step	SP000235443	XC886CM8RFAAAFZZA1	PG-TQFP-48-4	as SAF-XC886CM-6RFA, 32-Kbyte ROM, tape & reel
SAK-XC886CM-8RFA 5V AA-Step	SP000245801	XC886CM8RFA5VAAKZZA1	PG-TQFP-48-4	as SAF-XC886CM-8RFA, 5-V power supply, -40°C to 125°C, tape & reel

**XC886LM Series**

SAK-XC886LM-6FFA 5V AC-Step	SP000606754	XC886LM6FFA5VACKXUMA1	PG-TQFP-48-4	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with LIN BSL support and MDU module, 5-V power supply, -40°C to 125°C, tape & reel
SAF-XC886LM-6FFI 5V AC-Step	SP000607050	XC886LM6FFI5VACFXUMA1	PG-TQFP-48-4	as SAK-XC886LM-6FFA, industry quality level, -40°C to 85°C, tape & reel
SAA-XC886LM-8FFA AC-Step	SP000368485	XC886LM8FFA5VACAXUMA1	PG-TQFP-48-4	as SAK-XC886LM-6FFA, 32-Kbyte flash memory, -40°C to 140°C, tape & reel
SAK-XC886LM-8FFA 5V AC-Step	SP000606752	XC886LM8FFA5VACKXUMA1	PG-TQFP-48-4	as SAA-XC886LM-8FFA, 5-V power supply, -40°C to 125°C, tape & reel
SAL-XC886LM-8FFA 5V AC-Step	SP000844272	XC886LM8FFA5VACLXUMA1	PG-TQFP-48-4	as SAK-XC886LM-8FFA, -40°C to 150°C, tape & reel
SAF-XC886LM-8FFI 5V AC-Step	SP000607052	XC886LM8FFI5VACFXUMA1	PG-TQFP-48-4	as SAF-XC886LM-8FFI, industry quality level, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family XC888 Series</b>				
SAF-XC888-6FFI 5V AC-Step	SP000607062	XC8886FFI5VACFXUMA1	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, industry quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), 5-V power supply, -40°C to 85°C, tape & reel
SAF-XC888-8FFI 5V AC-Step	SP000646588	XC8888FFI5VACFXUMA1	PG-TQFP-64-8	as SAF-XC888-6FFI, 32-Kbyte flash memory, tape & reel
SAK-XC888C-8FFA 5V AC-Step	SP000606958	XC888C8FFA5VACKXUMA1	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), 5-V power supply, -40°C to 125°C, tape & reel
<b>XC888CLM Series</b>				
SAK-XC888CLM-8FFA 5V AC-Step	SP000606756	XC888CLM8FFA5VACKXUMA1	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 32-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), 5-V power supply, with LIN BSL support and MDU module, -40°C to 125°C, tape & reel
■ SAF-XC888CLM-8FFI 5V AC-Step	SP000253397	XC888CLM8FFI5VACFXUMA1	PG-TQFP-64-8	as SAK-XC888CLM-8FFA, industry quality level, -40°C to 85°C, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>XC800 Family XC888CM Series</b>				
SAF-XC888CM-6RFA	SP000257476	XC888CM6RFAFZZA1	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte ROM, automotive quality level, 256-byte RAM, 1536-byte XRAM, MultiCAN with 2 nodes, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), with MDU module, -40°C to 85°C, tape & reel
SAK-XC888CM-6RFA 5V AA-Step	SP000257472	XC888CM6RFA5VAAKZZA1	PG-TQFP-64-8	as SAF-XC888CM-6RFA, 5-V power supply, -40°C to 125°C, tape & reel
SAF-XC888CM-8RFA AA-Step	SP000245812	XC888CM8RFAAAFZZA1	PG-TQFP-64-8	as SAF-XC888CM-6RFA 32-Kbyte ROM, -40°C to 85°C, tape & reel
SAK-XC888CM-8FFA 5V AC-Step	SP000607006	XC888CM8FFA5VACKXUMA1	PG-TQFP-64-8	as SAF-XC888CM-6RFA 32-Kbyte flash memory, 5-V power supply, with MDU module, -40°C to 125°C, tape & reel
SAF-XC888CM-8FFI 3V3 AC-Step	SP000607084	XC888CM8FFI3V3ACFXUMA1	PG-TQFP-64-8	as SAF-XC888CM-8FFA, industry quality level, 3.3-V power supply, tape & reel
SAF-XC888CM-8FFI 5V AC-Step	SP000655550	XC888CM8FFI5VACFXUMA1	PG-TQFP-64-8	as SAF-XC888CM-8FFA, industry quality level, 5-V power supply, tape & reel
<b>XC888LM Series</b>				
SAK-XC888LM-6FFA 5V AC-Step	SP000210994	XC888LM6FFA5VACKXUMA1	PG-TQFP-64-8	High performance XC800 core, based on industry standard 8051 architecture, 24-Kbyte flash memory, automotive quality level, 256-byte RAM, 1536-byte XRAM, capture/compare unit (CCU6), 16-bit timers/counters, 10-bit ADC, port- and core voltage watchdog circuit with RESET generation, watchdog timer, on-chip debug support (JTAG), 5-V power supply, with LIN BSL support and MDU module, -40°C to 125°C, tape & reel
▼ SAF-XC888LM-6FFI 3V3 AC-Step	SP000307472	XC888LM6FFI3V3ACFXUMA1	PG-TQFP-64-8	as SAF-XC888LM-6FFA, industry quality level, 3.3-V power supply, -40°C to 85°C, tape & reel
SAF-XC888LM-8FFI 5V AC-Step	SP000607064	XC888LM8FFI5VACFXUMA1	PG-TQFP-64-8	as SAK-XC888LM-6FFA 5V 24-Kbyte flash memory, industry quality level, -40°C to 85°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 8-bit</b>				
<b>C500 Family</b>				
<b>C505 Series</b>				
SAF-C505CA-LM CA-Step	SP000106669	C505CALMCAFXQMA1	PG-MQFP-44-2	ROMless, 256-byte on-chip RAM, 1-Kbyte XRAM, oscillator watchdog, watchdog timer, full CAN-controller (V 2.0 B active), 10-bit ADC, three 16-bit timers/counters, 20-MHz clock frequency, tray
SAF-C505CA-LM CA-Step	SP000106390	C505CALMCAFXUMA1	PG-MQFP-44-2	as SAF-C505CA-LM, tape & reel
SAB-C505CA-4EM CA-Step	SP000106391	C505CA4EMCABXQMA1	PG-MQFP-44-2	as SAF-C505CA-LM, 32-Kbyte OTP memory, 0°C to 70°C, tray
SAB-C505CA-4EM CA-Step	SP000106392	C505CA4EMCABXUMA1	PG-MQFP-44-2	as SAB-C505CA-4EM, tape & reel
SAF-C505CA-4EM CA-Step	SP000106394	C505CA4EMCAFXQMA1	PG-MQFP-44-2	as SAB-C505CA-4 EM, -40°C to 85°C, tray
SAF-C505CA-4EM CA-Step	SP000106395	C505CA4EMCAFXUMA1	PG-MQFP-44-2	as SAF-C505CA-4EM, tape & reel
SAK-C505CA-4EM CA-Step	SP000106396	C505CA4EMCAKXQMA1	PG-MQFP-44-2	as SAF-C505CA-4EM, -40°C to 125°C, tray
SAK-C505CA-4EM CA-Step	SP000106397	C505CA4EMCAKXUMA1	PG-MQFP-44-2	as SAK-C505CA-4EM, tape & reel
<b>C515 Series</b>				
SAF-C515C-8EM CA-Step	SP000106398	C515C8EMCAFXQMA1	PG-MQFP-80-1	64-Kbyte OTP memory, 256 x 8-bit RAM, additional 2K x 8-bit on-chip RAM, three 16-bit timer/counters, power saving modes, 10-bit A/D converter, programmable watchdog timer, oscillator watchdog, 10-MHz CPU clock frequency, for external memory, full CAN-controller (V 2.0 B active), -40°C to 85°C, tray
SAF-C515C-8EM CA-Step	SP000106399	C515C8EMCAFXUMA1	PG-MQFP-80-1	as SAF-C515C-8EM, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC166 Family</b>				
<b>XC161CJ/CS Series</b>				
SAF-XC161CJ-16F40F BB-Step	SP000280516	XC161CJ16F40FBBFXQMA1	PG-TQFP-144-19	128-Kbyte on-chip program memory (flash memory), 8-Kbyte RAM, programmable watchdog timer, oscillator watchdog, two 16-channel general purpose capture/compare units, TwinCAN module, two Full-CAN nodes, serial data link module (J1850), 12-channel 10-bit A/D converter, 40-MHz clock frequency, -40°C to 85°C, tape & reel
SAF-XC161CJ-16F40F BB-Step	SP000224537	XC161CJ16F40FBBFXUMA1	PG-TQFP-144-19	as SAF-XC161CJ-16F20F, 40-MHz clock frequency, tape & reel
SAK-XC161CJ-16F40F BB-Step	SP000224540	XC161CJ16F40FBBKXUMA1	PG-TQFP-144-19	as SAF-XC161CJ-16F40F, -40°C to 125°C, tape & reel
SAF-XC161CS-32F40F BB-A-Step	SP000224542	XC161CS32F40FBBAFXUMA1	PG-TQFP-144-19	256-Kbyte on-chip program memory (flash memory), 12-Kbyte RAM, programmable watchdog timer, oscillator watchdog, two 16-channel general purpose capture/compare units, TwinCAN module, two Full-CAN nodes, serial data link module (J1850), 40-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-XC161CS-32F40F BB-A-Step	SP000224544	XC161CS32F40FBBAXUMA1	PG-TQFP-144-19	as SAF-XC161CS-32F40F, -40°C to 125°C, tape & reel
<b>XC164CM Series</b>				
SAK-XC164CM-8F20F AA-Step	SP000065643	XC164CM8F20FAAKXUMA1	PG-TQFP-64-8	64-Kbyte on-chip program memory (flash memory), 2-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare units, TwinCAN module, one Full-CAN nodes, 14-channel 10-Bit A/D converter, 20-MHz clock frequency, -40°C to 125°C, tape & reel
SAF-XC164CM-8F40F AA-Step	SP000203865	XC164CM8F40FAAFXQMA1	PG-TQFP-64-8	as SAK-XC164CM-8F20F, 40-MHz clock frequency, -40°C to 85°C, tray
SAF-XC164CM-8F40F AA-Step	SP000065635	XC164CM8F40FAAFXUMA1	PG-TQFP-64-8	as SAF-XC164CM-8F40F, tape & reel
SAK-XC164CM-8F40F AA-Step	SP000203869	XC164CM8F40FAAKXQMA1	PG-TQFP-64-8	as SAF-XC164CM-8F40F, -40°C to 125°C, tray
SAK-XC164CM-8F40F AA-Step	SP000065644	XC164CM8F40FAAKXUMA1	PG-TQFP-64-8	as SAK-XC164CM-8F40F, tape & reel
SAK-XC164CM-16F20F BA-Step	SP000245661	XC164CM16F20FBAKXUMA1	PG-LQFP-64-4	as SAK-XC164CM-8F20F, 128-Kbyte on-chip program memory (flash memory), tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC166 Family</b>				
<b>XC164CM Series</b>				
(cont'd)				
SAF-XC164CM-16F40F BA-Step	SP000258386	XC164CM16F40FBAFXQMA1	PG-LQFP-64-4	as SAK-XC164CM-16F20F, 40-MHz clock frequency, -40°C to 85°C, tray
SAK-XC164CM-16F40F BA-Step	SP000258408	XC164CM16F40FBAKXQMA1	PG-LQFP-64-4	as SAF-XC164CM-16F40F, -40°C to 125°C, tray
SAK-XC164CM-16F40F BA-Step	SP000258407	XC164CM16F40FBAKXUMA1	PG-LQFP-64-4	as SAK-XC164CM-16F40F, tape & reel

## XC164CS Series

SAF-XC164CS-16F40F BB-Step	SP000224553	XC164CS16F40FBBFXQMA1	PG-TQFP-100-16	128-Kbyte on-chip program memory (flash memory), 6-Kbyte embedded static RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/ compare units, TwinCAN module, two Full-CAN nodes, 14-channel 10-bit A/D converter, 40-MHz clock frequency, -40°C to 85°C, tray
SAF-XC164CS-16F40F BB-Step	SP000224552	XC164CS16F40FBBFXUMA1	PG-TQFP-100-16	as SAF-XC164CS-16F40F, tape & reel
SAK-XC164CS-16F40F BB-Step	SP000224561	XC164CS16F40FBBKXQMA1	PG-TQFP-100-16	as SAF-XC164CS-16F40F, -40°C to 125°C, tray
SAK-XC164CS-16F40F BB-Step	SP000224560	XC164CS16F40FBBKXUMA1	PG-TQFP-100-16	as SAK-XC164CS-16F40F, tape & reel
SAK-XC164CS-32F20F BB-A-Step	SP000224594	XC164CS32F20FBBKXUMA1	PG-TQFP-100-16	as SAF-XC164CS-16F40F, 256-Kbyte on-chip program memory (flash memory), 20-MHz clock frequency, -40°C to 125°C, tray
SAF-XC164CS-32F40F BB-A-Step	SP000224593	XC164CS32F40FBBAFXQMA1	PG-TQFP-100-16	as SAK-XC164CS-32F20F, 40-MHz clock frequency, -40°C to 85°C, tray
SAF-XC164CS-32F40F BB-A-Step	SP000224592	XC164CS32F40FBBAFXUMA1	PG-TQFP-100-16	as SAF-XC164CS-32F40F, tape & reel
SAK-XC164CS-32F40F BB-A-Step	SP000224597	XC164CS32F40FBBKXQMA1	PG-TQFP-100-16	as SAF-XC164CS-32F40F, -40°C to 125°C, tray
SAK-XC164CS-32F40F BB-A-Step	SP000224596	XC164CS32F40FBBKXUMA1	PG-TQFP-100-16	as SAK-XC164CS-32F40F, tape & reel

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC166 Family</b>				
<b>XC167CI Series</b>				
SAF-XC167CI-16F40F BB-Step	SP000224690	XC167CI16F40FBBFXQMA1	PG-TQFP-144-19	128-Kbyte on-chip program memory (flash memory), 8-Kbyte on-chip RAM, programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units, 16-channel 10-bit A/D converter, TwinCAN module, two Full-CAN nodes, 40-MHz clock frequency, -40°C to 85°C, tray
SAF-XC167CI-16F40F BB-Step	SP000224689	XC167CI16F40FBBFXUMA1	PG-TQFP-144-19	as SAF-XC167CI-16F40F, tape & reel
SAK-XC167CI-16F40F BB-Step	SP000224695	XC167CI16F40FBBKXQMA1	PG-TQFP-144-19	as SAF-XC167CI-16F40F, -40°C to 125°C, tray
SAK-XC167CI-16F40F BB-Step	SP000224694	XC167CI16F40FBBKXUMA1	PG-TQFP-144-19	as SAK-XC167CI-16F40F, tape & reel
SAF-XC167CI-32F40F BB-A-Step	SP000224703	XC167CI32F40FBBAFXQMA1	PG-TQFP-144-19	as SAF-XC167CI-16F20F, 256-Kbytes on-chip program memory (flash memory), 12-Kbyte RAM, 40-MHz clock frequency, tray
SAF-XC167CI-32F40F BB-A-Step	SP000224702	XC167CI32F40FBBAFXUMA1	PG-TQFP-144-19	as SAF-XC167CI-32F40F, tape & reel
SAK-XC167CI-32F40F BB-A-Step	SP000224707	XC167CI32F40FBBAKXQMA1	PG-TQFP-144-19	as SAF-XC167CI-32F40F, -40°C to 125°C, tray
SAK-XC167CI-32F40F BB-A-Step	SP000224706	XC167CI32F40FBBAKXUMA1	PG-TQFP-144-19	as SAK-XC167CI-32F40F, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>C166 Family</b>				
<b>C161CS, JC, JI Series</b>				
SAB-C161CS-LF CA-Step	SP000106860	C161CSLFCABXQMA1	PG-TQFP-128-2	ROMless, 10-Kbyte on-chip SRAM, two on-chip CAN-interfaces (CAN1,CAN2), two 16-channel capture/compare units, 12-channel 10-bit ADC, watchdog timer, oscillator watchdog, additional 32-kHz oscillator, 25-MHz clock frequency, tray
SAB-C161CS-LF CA-Step	SP000106861	C161CSLFCABXUMA1	PG-TQFP-128-2	as SAB-C161CS-LF, tape & reel
SAF-C161CS-LF CA-Step	SP000106865	C161CSLFCAFXQMA1	PG-TQFP-128-2	as SAB-C161CS-LF, -40°C to 85°C, tray
SAF-C161CS-LF CA-Step	SP000106866	C161CSLFCAFXQMA1	PG-TQFP-128-2	as SAB-C161CS-LF, -40°C to 85°C, tray
SAK-C161CS-LF CA-Step	SP000106868	C161CSLFCAXUMA1	PG-TQFP-128-2	as SAF-C161CS-LF, -40°C to 125°C, tray
SAB-C161JC-LF CA-Step	SP000106862	C161JCLFCABXQMA1	PG-TQFP-128-2	as SAB-C161CS-LF, one on-chip CAN-interface (CAN1), serial data link module J1850 (SDLM), tray
SAK-C161JC-LF CA-Step	SP000106870	C161JCLFCAXQMA1	PG-TQFP-128-2	as SAB-C161JC-LF, -40°C to 125°C, tray

## C161K/O Series

SAB-C161K-LM HA-Step	SP000011584	C161KLMHABXQMA1	PG-MQFP-80-1	ROMless, 1-Kbyte on-chip RAM, one general purpose timer unit with 3 timers, two serial interfaces, 4 fast external interrupt inputs, 4-Mbyte address range, two chip select signals, DMUX bus, additional timer unit with capture input, operating range 5 V, 20-MHz clock frequency, tray
SAB-C161K-LM HA-Step	SP000011585	C161KLMHABXUMA1	PG-MQFP-80-1	as SAB-C161K-LM, tape & reel
SAF-C161K-LM HA-Step	SP000011620	C161KLMHAFXQMA1	PG-MQFP-80-1	as SAB-C161K-LM, -40°C to 85°C, tray
SAF-C161K-LM3V HA-Step	SP000011621	C161KLM3VHAFXUMA1	PG-MQFP-80-1	as SAB-C161K-LM, operating range 3 V, -40°C to 85°C, tape & reel
SAB-C161O-LM HA-Step	SP000011586	C161OLMHABXQMA1	PG-MQFP-80-1	as SAB-C161K-LM, 2-Kbyte on-chip internal RAM, two general purpose timer units with 5 timers, four chip-select signals, tray
SAB-C161O-LM HA-Step	SP000011587	C161OLMHABXUMA1	PG-MQFP-80-1	as SAB-C161O-LM, tape & reel
SAF-C161O-LM HA-Step	SP000011622	C161OLMHAFXQMA1	PG-MQFP-80-1	as SAB-C161O-LM, -40°C to 85°C, tray
SAF-C161O-LM HA-Step	SP000011623	C161OLMHAFXUMA1	PG-MQFP-80-1	as SAB-C161O-LM, -40°C to 85°C, tape & reel
SAB-C161O-L25M HA-Step	SP000014268	C161OL25MHABXUMA1	PG-MQFP-80-1	as SAB-C161O-LM, 25-MHz clock frequency, tape & reel
SAB-C161O-LM3V HA-Step	SP000011588	C161OLM3VHABXUMA1	PG-MQFP-80-1	as SAB-C161O-LM, operating range 3 V, tape & reel
SAF-C161O-LM3V HA-Step	SP000011624	C161OLM3VHAFXUMA1	PG-MQFP-80-1	as SAB-C161O-LM3V, -40°C to 85°C, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>C166 Family</b>				
<b>C161PI Series</b>				
SAB-C161PI-LF CA-Step	SP000014344	C161PILFCABXUMA1	PG-TQFP-100-1	ROMless, 3-Kbyte RAM, 8-bit ADC, real time clock, general purpose timer units, I <sup>2</sup> C Bus, USART, watchdog timer, idle and power down mode, operating range 5 V, 10-bit ADC, 20-MHz clock frequency, tape & reel
SAF-C161PI-LF CA-Step	SP000014359	C161PILFCAFXUMA1	PG-TQFP-100-1	as SAB-C161PI-LF, -40°C to 85°C, tape & reel
SAB-C161PI-LF3V CA-Step	SP000014360	C161PILF3VCABXUMA1	PG-TQFP-100-1	as SAB-C161PI-LF, operating range 3 V, tape & reel
SAF-C161PI-LF3V CA-Step	SP000014361	C161PILF3VCAFXUMA1	PG-TQFP-100-1	as SAB-C161PI-LF 3 V, -40°C to 85°C, tape & reel
SAB-C161PI-L25F CA-Step	SP000014362	C161PIL25FCABXUMA1	PG-TQFP-100-1	as SAB-C161PI-LF, 25-MHz clock frequency, tape & reel
SAF-C161PI-L25F CA-Step	SP000014363	C161PIL25FCAFXUMA1	PG-TQFP-100-1	as SAB-C161PI-L25F, -40°C to 85°C, tape & reel
SAB-C161PI-LM CA-Step	SP000014345	C161PILMCABXUMA1	PG-MQFP-100-2	as SAB-C161PI-LF, MQFP package, tape & reel
SAF-C161PI-LM CA-Step	SP000014364	C161PILMCAFXUMA1	PG-MQFP-100-2	as SAB-C161PI-LM, -40°C to 85°C, tape & reel
SAB-C161PI-LM3V CA-Step	SP000014365	C161PILFCABXUMA1	PG-MQFP-100-2	as SAB-C161PI-LM, operating range 3 V, tape & reel
SAF-C161PI-LM3V CA-Step	SP000014366	C161PILM3VCAFXUMA1	PG-MQFP-100-2	as SAB-C161PI-LM 3V, -40°C to 85°C, tape & reel
SAB-C161PI-L25M CA-Step	SP000014367	C161PIL25MCABXUMA1	PG-MQFP-100-2	as SAB-C161PI-LM, 25-MHz clock frequency, tape & reel
SAF-C161PI-L25M CA-Step	SP000014368	C161PIL25MCAFXUMA1	PG-MQFP-100-2	as SAB-C161PI-L25M, -40°C to 85°C, tape & reel

**C161S Series**

SAB-C161S-L25M AA-Step	SP000014739	C161SL25MAABXUMA1	PG-MQFP-80-7	as SAB-C161PI-LM, low cost version, 25-MHz clock frequency, tape & reel
SAF-C161S-L25M AA-Step	SP000014947	C161SL25MAAFXUMA1	PG-MQFP-80-7	as SAB-C161S-L25M, -40°C to 85°C, tape & reel
SAB-C161S-LM3V AA-Step	SP000014946	C161SLM3VAABXUMA1	PG-MQFP-80-7	as SAB-C161PI-LM, low cost version, operating range 3 V, tape & reel
SAF-C161S-LM3V AA-Step	SP000014948	C161SLM3VAAFXUMA1	PG-MQFP-80-7	as SAB-C161PI-LM, -40°C to 85°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>C166 Family</b>				
<b>C164CI Series</b>				
SAF-C164CI-LM CA+-Step	SP000103495	C164CILMCAFXUMA1	PG-MQFP-80-7	ROMless, 4-Kbyte on-chip static RAM, 10-bit- ADC, real time clock, programmable watchdog timer, oscillator watchdog, idle and power down mode, full CAN-controller (V 2.0 B active), 20-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-C164CI-LM CA+-Step	SP000103497	C164CILMCAKXUMA1	PG-MQFP-80-7	as SAF-C164CI-LM, -40°C to 125°C, tape & reel
SAK-C164CI-L25M CA+-Step	SP000103496	C164CIL25MCAKXUMA1	PG-MQFP-80-7	as SAF-C164CI-LM, 25-MHz clock frequency, tape & reel
SAB-C164CI-LM3V CA+-Step	SP000103494	C164CILM3VCABXUMA1	PG-MQFP-80-7	as SAF-C164CI-LM, operating range 3 V, 0°C to 70°C, tape & reel
SAF-C164CI-8EM CB-Step	SP000103498	C164CI8EMCBFXQMA1	PG-MQFP-80-7	as SAF-C164CI-LM, 64-Kbyte OTP-memory, 4-Kbyte on-chip static RAM, 10-bit ADC, real time clock, programmable watchdog timer, oscillator watchdog, idle and power down mode, full CAN-controller (V 2.0 B active), drive control unit, 20-MHz clock frequency, -40°C to 85°C, tray
SAF-C164CI-8EM CB-Step	SP000103499	C164CI8EMCBFXUMA1	PG-MQFP-80-7	as SAF-C164CI-8EM, tape & reel
SAF-C164CI-8EM DB-Step	SP000104055	C164CI8EMDBFXQMA1	PG-MQFP-80-7	as SAF-C164CI-8EM, DB-Step, tray
SAF-C164CI-8EM DB-Step	SP000104056	C164CI8EMDBFXUMA1	PG-MQFP-80-7	as SAF-C164CI-8EM, DB-Step, tape & reel
SAK-C164CI-8EM CB-Step	SP000103500	C164CI8EMCBKXQMA1	PG-MQFP-80-7	as SAF-C164CI-8M, -40°C to 125°C, tray
SAK-C164CI-8EM CB-Step	SP000103501	C164CI8EMCBKXUMA1	PG-MQFP-80-7	as SAK-C164CI-8EM, tape & reel
SAK-C164CI-8EM DB-Step	SP000104059	C164CI8EMDBKXQMA1	PG-MQFP-80-7	as SAK-C164CI-8EM, DB-Step, tray
SAK-C164CI-8EM DB-Step	SP000104060	C164CI8EMDBKXUMA1	PG-MQFP-80-7	as SAK-C164CI-8EM, tape & reel
SAF-C164CI-8E25M DB-Step	SP000104053	C164CI8E25MDBFXQMA1	PG-MQFP-80-7	as SAF-C164CI-8EM, 25-MHz clock frequency, tray
SAF-C164CI-8E25M DB-Step	SP000104054	C164CI8E25MDBFXUMA1	PG-MQFP-80-7	as SAF-C164CI-8E25M, tape & reel
SAF-C164CI-8E28M DB-Step	SP000106781	C164CI8E28MDBFXUMA1	PG-MQFP-80-7	as SAF-C164CI-8EM, 28-MHz clock frequency, tape & reel
SAK-C164CI-8E25M DB-Step	SP000104057	C164CI8E25MDBKXQMA1	PG-MQFP-80-7	as SAF-C164CI-825M, tray
SAK-C164CI-8E25M DB-Step	SP000104058	C164CI8E25MDBKXUMA1	PG-MQFP-80-7	as SAK-C164CI-8E25M, tape & reel
▼ SAF-C164CI-8RM CA-Step	SP000957756	C164CI8RMCAFZZA1	PG-MQFP-80-7	as SAF-C164CI-8EM, 64-Kbyte ROM, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>C166 Family</b>				
<b>C164CM Series</b>				
SAF-C164CM-4EF AB-Step	SP000104062	C164CM4EFABFXUMA1	PG-TQFP-64-4	32-Kbyte OTP memory, 2-Kbyte on-chip static RAM, 10-bit ADC, real time clock, programmable watchdog timer, oscillator watchdog, on-chip CAN-interface (V 2.0 B active), drive control unit, 20-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-C164CM-4EF AB-Step	SP000104063	C164CM4EFABKXUMA1	PG-TQFP-64-4	as SAF-C164CM-4EF, -40°C to 125°C, tape & reel

**C165 Series**

SAB-C165-LF HA-Step	SP000011595	C165LFHABXQMA1	PG-TQFP-100-1	ROMless, 2-Kbyte RAM, MCU-Core, additional 8 fast ext. interrupt inputs, 16-Mbyte address range, watchdog timer, 2 complex timer units, 2 serial interfaces, operating range 5 V, 20-MHz clock frequency, tray
SAB-C165-LF HA-Step	SP000011596	C165LFHABXUMA1	PG-TQFP-100-1	as SAB-C165-LF, tape & reel
SAF-C165-LF HA-Step	SP000011631	C165LFHAFXUMA1	PG-TQFP-100-1	as SAB-C165-LF, -40°C to 85°C, tape & reel
SAB-C165-LF3V HA-Step	SP000011597	C165LF3VHABXUMA1	PG-TQFP-100-1	as SAB-C165-LF, operating range 3 V, tape & reel
SAF-C165-LF3V HA-Step	SP000011632	C165LF3VHAFXUMA1	PG-TQFP-100-1	as SAB-C165-LF3V, -40°C to 85°C, tape & reel
SAB-C165-L25F HA-Step	SP000011591		PG-TQFP-100-1	as SAB-C165-LF, 25-MHz clock frequency, tray
SAB-C165-L25F HA-Step	SP000011592	C165L25FHABXUMA1	PG-TQFP-100-1	as SAB-C165-LF, tape & reel
SAF-C165-L25F HA-Step	SP000012870	C165L25FHAFXUMA1	PG-TQFP-100-1	as SAB-C165-L25F, -40°C to 85°C, tape & reel
SAB-C165-LM HA-Step	SP000011598	C165LMHABXQMA1	PG-MQFP-100-2	as SAB-C165-LF, MQFP package, tray
SAB-C165-LM HA-Step	SP000011599	C165LMHABXUMA1	PG-MQFP-100-2	as SAB-C165-LM, tape & reel
SAF-C165-LM HA-Step	SP000011633	C165LMHAFXQMA1	PG-MQFP-100-2	as SAB-C165-LM, -40°C to 85°C, tray
SAF-C165-LM HA-Step	SP000011634	C165LMHAFXUMA1	PG-MQFP-100-2	as SAF-C165-LM, tape & reel
SAF-C165-LM3V HA-Step	SP000011635	C165LM3VHAFXUMA1	PG-MQFP-100-2	as SAB-C165-LM, operating range 3 V, -40°C to 85°C, tape & reel
SAB-C165-L25M HA-Step	SP000011593	C165L25MHABXQMA1	PG-MQFP-100-2	as SAB-C165-LM, 25-MHz clock frequency, tray
SAB-C165-L25M HA-Step	SP000011594	C165L25MHABXUMA1	PG-MQFP-100-2	as SAB-C165-LM, tape & reel
SAF-C165-L25M HA-Step	SP000011629	C165L25FHAFXUMA1	PG-MQFP-100-2	as SAB-C165-L25M, -40°C to 85°C, tray
SAF-C165-L25M HA-Step	SP000011630	C165L25FHAFXUMA1	PG-MQFP-100-2	as SAB-C165-LM, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>C166 Family</b>				
<b>C167CR Series</b>				
SAB-C167CR-LM HA+-Step	SP000103462	C167CRLMHABXQLA1	PG-MQFP-144-6	ROMless, 2 × 2-Kbyte RAM, MCU-Core, 10-bit A/D converter, PWM unit, additional 8 fast ext. interrupt inputs, 16-Mbyte address range, watchdog timer, 2 complex timer units, two capture/compare units (32 registers, 4 timers), additional I/O lines, 2 serial interfaces, with CAN, with PLL, 20-MHz clock frequency, tray
SAB-C167CR-LM HA+-Step	SP000103463	C167CRLMHABXUMA1	PG-MQFP-144-6	as SAB-C167CR-LM, tape & reel
SAF-C167CR-LM HA+-Step	SP000103464	C167CRLMHAFXQLA1	PG-MQFP-144-6	as SAF-C167CR-LM, tray
SAF-C167CR-LM HA+-Step	SP000103465	C167CRLMHAFXUMA1	PG-MQFP-144-6	as SAF-C167CR-LM, tape & reel
SAK-C167CR-LM HA+-Step	SP000103466	C167CRLMHAKXQLA1	PG-MQFP-144-6	as SAK-C167CR-LM, HA+-Step, tray
SAK-C167CR-LM HA+-Step	SP000103467	C167CRLMHAKXUMA1	PG-MQFP-144-6	as SAK-C167CR-LM, HA+-Step, tape & reel
SAK-C167CR-L33M HA+-Step	SP000103460	C167CRL33MHAKXQLA1	PG-MQFP-144-6	as SAK-C167CR-L33M, HA+-Step, tray
SAK-C167CR-L33M HA+-Step	SP000103461	C167CRL33MHAKXUMA1	PG-MQFP-144-6	as SAK-C167CR-L33M, HA+-Step, tape & reel
<b>C167CS Series</b>				
SAB-C167CS-LM CA+-Step	SP000103483	C167CSLMCABXQLA1	PG-MQFP-144-6	as SAB-C167CR-LM, two on-chip CAN-interfaces, tray
SAB-C167CS-LM CA+-Step	SP000103484	C167CSLMCABXUMA1	PG-MQFP-144-6	as SAB-C167CS-LM, tape & reel
SAF-C167CS-LM CA+-Step	SP000103487	C167CSLMCAFXQLA1	PG-MQFP-144-6	as SAB-C167CS-LM, -40°C to 85°C, tray
SAF-C167CS-LM CA+-Step	SP000103488	C167CSLMCAFXUMA1	PG-MQFP-144-6	as SAF-C167CS-LM, tape & reel
SAK-C167CS-LM CA+-Step	SP000103492	C167CSLMCAKXQLA1	PG-MQFP-144-6	as SAB-C167CS-LM, -40°C to 125°C, tray
SAK-C167CS-LM CA+-Step	SP000103493	C167CSLMCAKXUMA1	PG-MQFP-144-6	as SAK-C167CS-LM, tape & reel
SAF-C167CS-L16M3V CA+-Step	SP000103469	C167CSL16M3VCAFXQLA1	PG-MQFP-144-6	as SAB-C167CS-LM, 16-MHz clock frequency, operating range 3 V, tray
SAF-C167CS-L16M3V CA+-Step	SP000103470	C167CSL16M3VCAFXUMA1	PG-MQFP-144-6	as SAF-C167CS-L16M3V, tape & reel
SAF-C167CS-L33M CA+-Step	SP000103485	C167CSL33MCAFXQLA1	PG-MQFP-144-6	as SAB-C167CS-LM, 33-MHz clock frequency, -40°C to 85°C, tray
SAF-C167CS-L33M CA+-Step	SP000103486	C167CSL33MCAFXUMA1	PG-MQFP-144-6	as SAF-C167CS-L33M, tape & reel
SAK-C167CS-L33M CA+-Step	SP000103489	C167CSL33MCAKXUMA1	PG-MQFP-144-6	as SAF-C167CS-L33M, -40°C to 125°C, tape & reel
SAB-C167CS-L40M CA+-Step	SP000103471	C167CSL40MCABXQLA1	PG-MQFP-144-6	as SAB-C167CS-LM, 40-MHz clock frequency, tray

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>C166 Family</b>				
<b>C167CS Series</b>				
(cont'd)				
SAB-C167CS-L40M CA+-Step	SP000103468	C167CSL40MCABXUMA1	PG-MQFP-144-6	as SAB-C167CS-LM, 40-MHz clock frequency, tape & reel
SAK167CS-L40M CA+-Step	SP000103490	C167CSL40MCAKXQLA1	PG-MQFP-144-6	as SAB-C167CS-L40M, -40°C to 125°C, tray
SAK-C167CS-L40M CA+-Step	SP000103491	C167CSL40MCAKXQLA1	PG-MQFP-144-6	as SAK-C167CS-L40M, tape & reel
<b>C167SR Series</b>				
SAB-C167SR-LM HA+-Step	SP000103456	C167SRLMHABXQLA1	PG-MQFP-144-6	as SAB-C167CR-LM, without CAN interface, tray
SAB-C167SR-LM HA+-Step	SP000103457	C167SRLMHABXUMA1	PG-MQFP-144-6	as SAB-C167SR-LM, tape & reel
SAK-C167SR-LM HA+-Step	SP000103458	C167SRLMHAKXQLA1	PG-MQFP-144-6	as SAB-C167SR-LM, -40°C to 125°C, tray
SAK-C167SR-LM HA+-Step	SP000103459	C167SRLMHAKXUMA1	PG-MQFP-144-6	as SAK-C167SR-LM, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE160 Series</b>				
▼SAK-XE160FU-4F40R AA-Step	SP000859272	XE160FU4F40RAAKZZA1	PG-TSSOP-38-8	Real time signal controller/ Compact Line 32-Kbyte on-chip program memory (flash memory), 4-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare unit (CAPCOM2), capture/compare unit (CCU60), 8-channel 12-bit A/D converter, two serial interface channels, 40-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAF-XE160FU-4F66R AA-Step	SP000859274	XE160FU4F66RAAFZZA1	PG-TSSOP-38-8	as SAK-XE160FU-4F40R 66-MHz clock frequency, -40°C to 85°C, tape & reel
▼SAK-XE160FU-8F40R AA-Step	SP000859276	XE160FU8F40RAAKXUMA1	PG-TSSOP-38-8	as SAK-XE160FU-4F40R 64-Kbyte on-chip program memory (flash memory), tape & reel
▼SAF-XE160FU-8F66R AA-Step	SP000859278	XE160FU8F66RAAFXUMA1	PG-TSSOP-38-8	as SAK-XE160FU-8F40R 66-MHz clock frequency, -40°C to 85°C, tape & reel

## XE161 Series

▼SAK-XE161FL-12F66V AA-Step	SP000859296	XE161FL12F66VAAKZZA1	PG-VQFN-48-54	Real time signal controller/ Econo Line 96-Kbyte on-chip program memory (flash memory), 4-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare unit (CAPCOM2), two capture/compare units (CCU60), 10-channel 12-bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XE161FL-20F66V AA-Step	SP000859288	XE161FL20F66VAAKXUMA1	PG-VQFN-48-54	as SAK-XE161FL-12F66V, 160-Kbyte on-chip program memory (flash memory), tape & reel
▼SAF-XE161FL-12F80V AA-Step	SP000859298	XE161FL12F80VAAFZZA1	PG-VQFN-48-54	as SAK-XE161FL-20F66V, 96-Kbyte on-chip program memory (flash memory), 80-MHz clock frequency, -40°C to 85°C, tape & reel
▼SAF-XE161FL-20F80V AA-Step	SP000859290	XE161FL20F80VAAFZZA1	PG-VQFN-48-54	as SAF-XE161FL-12F80V 160-Kbyte on-chip program memory (flash memory), tape & reel

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE161 Series</b>				
(cont'd)				
▼SAK-XE161HL-12F66V AA-Step	SP000859300	XE161HL12F66VAAKZZZA1	PG-VQFN-48-54	as SAF-XE161FL-12F80V, no Full-CAN node, 66-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XE161HL-20F66V AA-Step	SP000859292	XE161HL20F66VAAKZZZA1	PG-VQFN-48-54	as SAK-XE161FL-12F66V, 160-Kbyte on-chip program memory (flash memory), tape & reel
▼SAF-XE161HL-12F80V AA-Step	SP000859302	XE161HL12F80VAAFZZZA1	PG-VQFN-48-54	as SAF-XE161FL-12F80V no Full-CAN node, tape & reel
▼SAF-XE161HL-20F80V AA-Step	SP000966484	XE161HL20F80VAAFZZZA2	PG-VQFN-48-54	as SAF-XE161FL-20F80V no Full-CAN node, tube
▼SAF-XE161HL-20F80V AA-Step	SP000859294	XE161HL20F80VAAFZZZA1	PG-VQFN-48-54	as SAF-XE161HL-20F80V, tape & reel
▼SAF-XE161FU-4F66V AA-Step	SP000859282	XE161FU4F66VAAFZZZA1	PG-VQFN-48-54	Real time signal controller/ Compact Line 32-Kbyte on-chip program memory (flash memory), 4-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/ compare unit (CAPCOM2), two capture/compare units (CCU60), 10-channel 12-bit A/D converter, two serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tape & reel
▼SAF-XE161FU-8F66V AA-Step	SP000859286	XE161FU8F66VAAFZZZA1	PG-VQFN-48-54	as SAF-XE161FU-4F66V, 64-Kbyte on-chip program memory (flash memory), tape & reel
▼SAK-XE161FU-4F40V AA-Step	SP000859280	XE161FU4F40VAAKZZZA1	PG-VQFN-48-54	as SAF-XE161FU-4F66V, 40-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XE161FU-8F40V AA-Step	SP000859284	XE161FU8F40VAAKXUMA1	PG-VQFN-48-54	as SAK-XE161FU-4F40V, 64-Kbyte on-chip program memory (flash memory), tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE162 Series</b>				
▼SAK-XE162FL-12F66L AA-Step	SP000859312	XE162FL12F66LAAKZZZA1	PG-LQFP-64-22	Real time signal controller/ Econo Line 96-Kbyte on-chip program memory (flash memory), 4-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/ compare unit (CAPCOM2), two capture/compare units (CCU60), 19-channel 12-bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tray
▼SAF-XE162FL-12F80L AA-Step	SP000859314	XE162FL12F80LAAFQSA1	PG-LQFP-64-22	as SAK-XE162FL-12F66L, 80-MHz clock frequency, -40°C to 85°C, tray
▼SAF-XE162FL-20F80L AA-Step	SP000859306	XE162FL20F80LAAFZZZA1	PG-LQFP-64-22	as SAF-XE162FL-12F80L, 160-Kbyte on-chip program memory (flash memory), tray
▼SAK-XE162FL-20F66L AA-Step	SP000859304	XE162FL20F66LAAKXUMA1	PG-LQFP-64-22	as SAF-XE162FL-12F80L, 160-Kbyte on-chip program memory (flash memory), 4-Kbyte on-chip program/data SRAM (PSRAM), 66-MHz clock frequency, -40°C to 125°C, tape & reel
SAF-XE162FM-24F80L AA-Step	SP000397634	XE162FM24F80LAAFUMA1	PG-LQFP-64-13	Real time signal controller/Base Line 192-Kbyte on-chip program memory (flash memory), 10-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), one 16-channel purpose capture/ compare unit (CAPCOM2), programmable watchdog timer, oscillator watchdog, capture/ compare unit (CCU60), 7 + 2-channel 10-bit A/D converter, six serial interface, two Full-CAN nodes, 80-MHz clock frequency, -40°C to 85°C, tape & reel
SAF-XE162FM-72F80L AA-Step	SP000397630	XE162FM72F80LAAFUMA1	PG-LQFP-64-13	as SAFXE162FM-24F80L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
▼SAF-XE162FN-16F80L AA-Step	SP000518060	XE162FN16F80LAAFZZZA1	PG-LQFP-64-13	as SAF-XE162FM-24F80L, Value Line 128-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
▼SAF-XE162FN-24F80L AA-Step	SP000518062	XE162FN24F80LAAFZZZA1	PG-LQFP-64-13	as SAF-XE162FN-16F80L, 192-Kbyte on-chip program memory (flash memory), tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE162 Series</b>				
(cont'd)				
▼SAF-XE162FN-40F80L AA-Step	SP000726684	XE162FN40F80LAAFZZZA1	PG-LQFP-64-13	as SAF-XE162FN-24F80L, 320-Kbyte on-chip program memory (flash memory), tray
SAK-XE162FN-40F80L AA-Step	SP000634794	XE162FN40F80LAAKXUMA1	PG-LQFP-64-13	as SAF-XE162FN-40F80L, -40°C to 125°C, tape & reel
▼SAK-XE162HL-12F66L AA-Step	SP000859316	XE162HL12F66LAAKZZZA1	PG-LQFP-64-22	Real time signal controller/ Econo Line 96-Kbyte on-chip program memory (flash memory), 4-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/ compare unit (CAPCOM2), two capture/compare units (CCU60), 19-channel 12-bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tray
▼SAK-XE162HL-20F66L AA-Step	SP000859308	XE162HL20F66LAAKZZZA1	PG-LQFP-64-22	as SAF-XE162HL-12F66L, 160-Kbyte on-chip program memory (flash memory), tray
▼SAF-XE162HL-12F80L AA-Step	SP000859318	XE162HL12F80LAAFZZZA1	PG-LQFP-64-22	as SAK-XE162HL-12F66L, 80-MHz clock frequency, -40°C to 85°C, tray
▼SAF-XE162HL-20F80L AA-Step	SP000859310	XE162HL20F80LAAFQXSA1	PG-LQFP-64-22	as SAF-XE162HL-12F80L, 160-Kbyte on-chip program memory (flash memory), tray
SAF-XE162HM-72F80L AA-Step	SP000397638	XE162HM72F80LAAFUMA1	PG-LQFP-64-13	as SAF-XE162FM-72F80L/ High Line no Full-CAN node, -40°C to 85°C, tape & reel
▼SAF-XE162HN-16F80L AA-Step	SP000518066	XE162HN16F80LAAFZZZA1	PG-LQFP-64-13	as SAK-XE162FN-40F80L, Value Line 128-Kbyte on-chip program memory (flash memory), 8-Kbyte on-chip program/data SRAM (PSRAM), no Full-CAN node, -40°C to 85°C, tape & reel
SAF-XE162HN-24F80L AA-Step	SP000518068	XE162HN24F80LAAFUMA1	PG-LQFP-64-13	as SAF-XE162HN-16F80L, 192-Kbyte on-chip program memory (flash memory), tape & reel
SAK-XE162HN-24F80L AA-Step	SP000692014	XE162HN24F80LAAKXUMA1	PG-LQFP-64-13	as SAF-XE162HN-24F80L, -40°C to 125°C, tape & reel
SAK-XE162HN-40F80L AA-Step	SP000692016	XE162HN40F80LAAKXUMA1	PG-LQFP-64-13	as SAF-XE162FN-24F80L, 320-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE164F Series</b>				
SAF-XE164F-24F66L AC-Step	SP000363794	XE164F24F66LACFXQMA1	PG-LQFP-100-3	Real time signal controller High performance CPU with five-stage pipeline, 192-Kbyte on-chip program memory (flash memory), 10-Kbyte on-chip program/data SRAM (PSRAM), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare unit (CAPCOM2), three capture/compare units (CCU6), 11 + 5-channel 10-bit A/D converter, four Full-CAN nodes, six serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tray
SAF-XE164F-24F66L AC-Step	SP000363793	XE164F24F66LACFXUMA1	PG-LQFP-100-3	as SAF-XE164F-24F66L, tape & reel
SAF-XE164F-48F66L AC-Step	SP000363785	XE164F48F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164F-24F66L, 384-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164F-48F66L AC-Step	SP000363784	XE164F48F66LACFXUMA1	PG-LQFP-100-3	as SAF-XE164F-48F66L, tape & reel
SAF-XE164F-72F66L AC-Step	SP000363775	XE164F72F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164F-24F66L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164F-96F66L AC-Step	SP000363762	XE164F96F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164F-72F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164F-96F66L AC-Step	SP000363761	XE164F96F66LACFXUMA1	PG-LQFP-100-3	as SAF-XE164F-96F66L, tape & reel
SAF-XE164F-96F80L AC-Step	SP000450812	XE164F96F80LACFXUMA1	PG-LQFP-100-3	as SAF-XE164F-96F66L, 80-MHz clock frequency, tape & reel
SAF-XE164FM-24F80L AA-Step	SP000397562	XE164FM24F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164F-24F66L, Base Line, memory protection unit (MPU), 80-MHz clock frequency, -40°C to 85°C, tape & reel
▼SAF-XE164FM-48F80L AA-Step	SP000397560	XE164FM48F80LAAFZZZA1	PG-LQFP-100-8	as SAF-XE164F-24F66L, 384-Kbyte on-chip program memory (flash memory), tape & reel
SAK-XE164FM-48F80L AA-Step	SP000628602	XE164FM48F80LAAKXUMA1	PG-LQFP-100-8	as SAF-XE164FM-24F80L, 384-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE164F Series</b>				
(cont'd)				
SAF-XE164FM-72F80L AA-Step	SP000397558	XE164FM72F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164FM-24F80L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
SAK-XE164FM-72F80L AA-Step	SP000628606	XE164FM72F80LAAKUMA1	PG-LQFP-100-8	as SAF-XE164FM-72F80L, -40°C to 125°C, tape & reel
SAF-XE164FN-16F80L AA-Step	SP000518034	XE164FN16F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164F-24F66L, Value Line 128-Kbyte on-chip program memory (flash memory), 8-Kbyte on-chip program/data SRAM (PSRAM), 80-MHz clock frequency, -40°C to 85°C, tape & reel
▼ SAF-XE164FN-40F80L AA-Step	SP000726688	XE164FN40F80LAAFQSA1	PG-LQFP-100-8	as SAF-XE164F-24F66L, 320-Kbyte on-chip program memory (flash memory), tray
▼ SAF-XE164FN-40F80L AA-Step	SP000518038	XE164FN40F80LAAFZZA1	PG-LQFP-100-8	as SAF-XE164F-24F66L, tape & reel
SAK-XE164FN-40F80L AA-Step	SP000634792	XE164FN40F80LAAKUMA1	PG-LQFP-100-8	as SAF-XE164FN-40F80L, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE164G Series</b>				
SAF-XE164G-24F66L AC-Step	SP000363797	XE164G24F66LACFXQMA1	PG-LQFP-100-3	Real time signal controller High performance CPU with five-stage pipeline, 192-Kbyte on-chip program memory (flash memory), 10-Kbyte on-chip program/data SRAM (PSRAM), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare unit (CAPCOM2), two capture/compare units (CCU6), 6+ 5-channel 10-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tray
SAF-XE164G-24F66L AC-Step	SP000363795	XE164G24F66LACFXUMA1	PG-LQFP-100-3	as SAF-XE164G-24F66L, tape & reel
SAF-XE164G-48F66L AC-Step	SP000363787	XE164G48F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164G-24F66L, 384-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164G-96F66L AC-Step	SP000363764	XE164G96F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164G-24F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164GM-24F80L AA-Step	SP000397568	XE164GM24F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164G-24F66, Base Line memory protection unit (MPU), 80-MHz clock frequency, tape & reel
SAF-XE164GM-72F80L AA-Step	SP000397564	XE164GM72F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164GM-24F80L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
SAK-XE164GM-72F80L AA-Step	SP000628618	XE164GM72F80LAAKUMA1	PG-LQFP-100-8	as SAF-XE164GM-72F80L, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE164H Series</b>				
SAF-XE164H-72F66L AC-Step	SP000363780	XE164H72F66LACFXQMA1	PG-LQFP-100-3	Real time signal controller High performance CPU with five-stage pipeline, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/ compare unit (CAPCOM2), three capture/compare units (CCU6), 11 + 5-channel 10-Bit A/D converter, no Full-CAN node, six serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tray
SAF-XE164H-96F66L AC-Step	SP000363766	XE164H96F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164H-24F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164H-96F66L AC-Step	SP000363765	XE164H96F66LACFXUMA1	PG-LQFP-100-3	as SAF-XE164H-96F66L, tape & reel
SAF-XE164HM-72F80L AA-Step	SP000397570	XE164HM72F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164H-72F66L, Base Line memory protection unit (MPU), 80-MHz clock frequency, tape & reel
▼SAF-XE164HN-16F80L AA-Step	SP000518046	XE164HN16F80LAAFZZA1	PG-LQFP-100-8	as SAF-XE164HM-72F80L, Value Line 128-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), -40°C to 85°C, tape & reel
SAF-XE164HN-40F80L AA-Step	SP000518048	XE164HN40F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164HN-16F80L, 320-Kbyte on-chip program memory (flash memory), tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE164K Series</b>				
SAF-XE164K-48F66L AC-Step	SP000363791	XE164K48F66LACFXQMA1	PG-LQFP-100-3	Real time signal controller High performance CPU with five-stage pipeline, 384-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare unit (CAPCOM2), two capture/compare units (CCU6), 6 + 5-channel 10-Bit A/D converter, no Full-CAN node, four serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tray
SAF-XE164K-96F66L AC-Step	SP000363771	XE164K96F66LACFXQMA1	PG-LQFP-100-3	as SAF-XE164K-48F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE164K-96F66L AC-Step	SP000363770	XE164K96F66LACFXUMA1	PG-LQFP-100-3	as SAF-XE164K-96F66L, tape & reel
SAF-XE164KM-48F80L AA-Step	SP000397578	XE164KM48F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164K-48F66L, Base Line memory protection unit (MPU), 80-MHz clock frequency, tape & reel
SAF-XE164KM-72F80L AA-Step	SP000397576	XE164KM72F80LAAFUMA1	PG-LQFP-100-8	as SAF-XE164KM-24F80L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
▼SAF-XE164KN-16F80L AA-Step	SP000518054	XE164KN16F80LAAFZZA1	PG-LQFP-100-8	as SAF-XE164KM-24F80L, Value Line 128-Kbyte on-chip program memory (flash memory), 8-Kbyte on-chip program/data SRAM (PSRAM), tape & reel

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE167F Series</b>				
SAF-XE167F-48F66L AC-Step	SP000363822	XE167F48F66LACFXQMA1	PG-LQFP-144-4	Real time signal controller 384-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare unit (CAPCOM2), four capture/compare units (CCU6), 16 + 8-channel 10-Bit A/D converter, five Full-CAN nodes, six serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tray
SAF-XE167F-72F66L AC-Step	SP000363813	XE167F72F66LACFXQMA1	PG-LQFP-144-4	as SAF-XE167F-48F66L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE167F-96F66L AC-Step	SP000363803	XE167F96F66LACFXQMA1	PG-LQFP-144-4	as SAF-XE167F-48F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE167F-96F66L AC-Step	SP000363802	XE167F96F66LACFXUMA1	PG-LQFP-144-4	as SAF-XE167F-96F66L, tape & reel
SAF-XE167F-96F80L AC-Step	SP000450816	XE167F96F80LACFXUMA1	PG-LQFP-144-4	as SAF-XE167F-96F66L, 80-MHz clock frequency, tape & reel
▼SAF-XE167FH-136F100L AB-Step	SP000874840	XE167FH136F100LABFZZZA1	PG-LQFP-144-13	Real time signal controller/ High Line 1,088-Kbyte on-chip program memory (flash memory), 112-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units (CAPCOM2), four capture/compare units (CCU6), 16 + 8-channel 10-Bit A/D converter, six Full-CAN nodes, eight serial interface channels, 100-MHz clock frequency, -40°C to 85°C, tape & reel
▼SAF-XE167FH-200F100L AB-Step	SP000845646	XE167FH200F100LABFXUMA1	PG-LQFP-144-13	as SAF-XE167FH-136F100L 1,600-Kbyte on-chip program memory (flash memory), tape & reel
▼SAK-XE167FH-200F100L AB-Step	SP000845650	XE167FH200F100LABKXUMA1	PG-LQFP-144-13	as SAF-XE167FH-200F100L, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE167F Series</b>				
(cont'd)				
SAF-XE167FM-72F80L AA-Step	SP000397582	XE167FM72F80LAAFUMA1	PG-LQFP-144-13	as SAF-XE167FH-200F100L, Base Line 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), five Full-CAN nodes, six serial interface channels, 80-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-XE167FM-72F80L AA-Step	SP000628636	XE167FM72F80LAAKUMA1	PG-LQFP-144-13	as SAF-XE167FM-72F80L, -40°C to 125°C, tape & reel
<b>XE167G Series</b>				
SAF-XE167G-48F66L AC-Step	SP000363824	XE167G48F66LACFXQMA1	PG-LQFP-144-4	Real time signal controller 384-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/ compare unit (CAPCOM2), two capture/compare units (CCU6), 8 + 8-channel 10-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tray
SAF-XE167G-72F66L AC-Step	SP000363815	XE167G72F66LACFXQMA1	PG-LQFP-144-4	as SAF-XE167G-48F66L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE167G-96F66L AC-Step	SP000363805	XE167G96F66LACFXQMA1	PG-LQFP-144-4	as SAF-XE167G-48F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tray

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE167H Series</b>				
SAF-XE167H-48F66L AC-Step	SP000363826	XE167H48F66LACFXQMA1	PG-LQFP-144-4	Real time signal controller 384-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare unit (CAPCOM2), four capture/compare units (CCU6), 16 + 8-channel 10-Bit A/D converter, no Full-CAN nodes, six serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tray
SAF-XE167H-96F66L AC-Step	SP000363806	XE167H96F66LACFXUMA1	PG-LQFP-144-4	as SAF-XE167H-48F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
SAF-XE167HM-72F80L AA-Step	SP000397594	XE167HM72F80LAAFXUMA1	PG-LQFP-144-13	as SAF-XE167H-48F66L, Base Line 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), 80-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-XE167HM-72F80L AA-Step	SP000628646	XE167HM72F80LAAKXUMA1	PG-LQFP-144-13	as SAF-XE167HM-72F80L, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XE166 Family</b>				
<b>XE167K Series</b>				
SAF-XE167K-48F66L AC-Step	SP000363828	XE167K48F66LACFXQMA1	PG-LQFP-144-4	Real time signal controller 384-Kbyte on-chip program memory (flash memory), 16-Kbyte on-chip program/data SRAM (PSRAM), programmable watchdog timer, oscillator watchdog, one 16-channel purpose capture/compare unit (CAPCOM2), two capture/compare units (CCU6), 8 + 8-channel 10-Bit A/D converter, no Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tray
SAF-XE167K-72F66L AC-Step	SP000363819	XE167K72F66LACFXQMA1	PG-LQFP-144-4	as SAF-XE167K-48F66L, 576-Kbyte on-chip program memory (flash memory), 32-Kbyte on-chip program/data SRAM (PSRAM), tray
SAF-XE167K-96F66L AC-Step	SP000363809	XE167K96F66LACFXQMA1	PG-LQFP-144-4	as SAF-XE167K-48F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tray
<b>XE169F Series</b>				
▼SAF-XE169FH-136F100L AB-Step	SP000874844	XE169FH136F100LABFZZZA1	PG-LQFP-176-12	Real time signal controller/ High Line 1,088-Kbyte on-chip program memory (flash memory), 112-Kbyte on-chip program/data SRAM (PSRAM), memory protection unit (MPU), programmable watchdog timer, oscillator watchdog, two 16-channel purpose capture/compare units (CAPCOM2), four capture/compare units (CCU6), 16 + 14-channel 10-Bit A/D converter, six Full-CAN nodes, ten serial interface channels, 100-MHz clock frequency, -40°C to 85°C, tape & reel
▼SAF-XE169FH-200F100L AB-Step	SP000874838	XE169FH200F100LABFZZZA1	PG-LQFP-176-12	as SAF-XE169FH-136F100L 1,600-Kbyte on-chip program memory (flash memory), tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family XC22xx Series (Body)</b>				
▼SAK-XC2220U-8F40V AA-Step	SP000846742	XC2220U8F40VAAKXUMA1	PG-VQFN-48-54	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family/Compact Line High performance CPU with 5-stage pipeline, 64-Kbyte on-chip program memory, 4-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, capture/compare unit (CCU6), 10-channel 12-Bit A/D converter, two serial interface channels, 40-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XC2210U-4F40R AA-Step	SP000858094	XC2210U4F40RAAKZZZA1	PG-TSSOP-38-8	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family/Compact Line High performance CPU with 5-stage pipeline, 32-Kbyte on-chip program memory, 8-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, capture/compare unit (CCU6), 8-channel 12-Bit A/D converter, two serial interface channels, 40-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XC2224L-20F66V AA-Step	SP000846740	XC2224L20F66VAAKXUMA1	PG-VQFN-48-54	as SAK-XC2220U-8F40L, Econo Line 160-Kbyte on-chip program memory, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC223x Series (Body)</b>				
▼SAK-XC2234L-20F66L AA-Step	SP000846738	XC2234L20F66LAAKXUMA1	PG-LQFP-64-22	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family/Econo Line 160-Kbyte on-chip program memory, 4-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, two capture/compare units (CCU6), 19-channel 12-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2236N-40F80L AA-Step	SP000605510	XC2236N40F80LAAKXUMA1	PG-LQFP-64-13	as SAK-XC2234L-20F66L, Value Line 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), 7 + 2-channel 10-bit A/D converter, one Full-CAN node, 80-MHz clock frequency, tape & reel
▼SAK-XC2238N-24F40L AA-Step	SP000720844	XC2238N24F40LAAKXUMA1	PG-LQFP-64-13	as SAK-XC2236N-40F80L, 192-Kbyte on-chip program memory, 8-Kbyte on-chip program/data SRAM (PSRAM), six Full-CAN nodes, 40-MHz clock frequency, tape & reel
SAK-XC2238N-40F40L AA-Step	SP000691244	XC2238N40F80LAAKXUMA1	PG-LQFP-64-13	as SAK-XC2236N-24F40L, 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
SAH-XC2237M-104F80L AA-Step	SP000720382	XC2237M104F80LAAHXUMA1	PG-LQFP-64-13	as SAK-XC2236N-40F80L, Base Line 832-Kbyte on-chip program memory, 64-Kbyte on-chip program/data SRAM (PSRAM), six Full-CAN nodes, 80-MHz clock frequency, -40°C to 110°C, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family XC2x6x Series (Body)</b>				
▼SAK-XC2060-96F66L AC-Step	SP000919142	XC206096F66LACKXUMA1	PG-LQFP-100-3	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family High performance CPU with 5-stage pipeline, 768-Kbyte on-chip program memory, 64-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, one capture/compare unit (CCU6), 11 + 5-channel 10-Bit A/D converter, five Full-CAN nodes, six serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XC2060-96F80L AC-Step	SP000904994	XC206096F80LACKXUMA1	PG-LQFP-100-3	as SAK-XC2060-96F66L, 80-MHz clock frequency, tape & reel
▼SAK-XC2060N-40F80L AA-Step	SP000905002	XC2060N40F80LAAKXUMA1	PG-LQFP-100-3	as SAK-XC2060-96F66L, Value Line 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), three Full-CAN nodes, six serial interface channels, 80-MHz clock frequency, tape & reel
SAK-XC2263N-24F40L AA-Step	SP000527764	XC2263N24F40LAAKXUMA1	PG-LQFP-100-3	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family/Value Line High performance CPU with 5-stage pipeline, 192-Kbyte on-chip program memory, 8-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, two capture/compare units (CCU6), 11 + 5-channel 10-bit A/D converter, one Full-CAN node, four serial interface channels, 40-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2263N-40F40L AA-Step	SP000527768	XC2263N40F40LAAKXUMA1	PG-LQFP-100-3	as SAK-XC2263N-24F40L, 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC2x6x Series (Body)</b>				
(cont'd)				
SAK-XC2264-56F66L AC-Step	SP000300114	XC226456F66LACKXUMA1	PG-LQFP-100-3	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family High performance CPU with 5-stage pipeline, 448-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM(PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, one capture/compare unit (CCU6), 8-channel 10-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2265N-40F80L AA-Step	SP000527774	XC2265N40F80LAAKXUMA1	PG-LQFP-100-3	as SAK-XC2264-56F66L, Value Line 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), two capture/compare units (CCU6), 11 + 5-channel 10-bit A/D converter, three Full-CAN nodes, six serial interface channels, 80-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2267-56F66L AC-Step	SP000300104	XC226756F66LACKXUMA1	PG-LQFP-100-3	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family High performance CPU with 5-stage pipeline, 448-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, four capture/compare unit (CCU6), 8 + 8-channel 10-Bit A/D converter, five Full-CAN nodes, six serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2267-96F66L AC-Step	SP000250942	XC226796F66LACKXUMA1	PG-LQFP-100-3	as SAK-XC2267-56F66L, 768-Kbyte on-chip program memory (flash memory), 64-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
SAK-XC2267-96F80L AC-Step	SP000300101	XC226796F80LACKXUMA1	PG-LQFP-100-3	as SAK-XC2267-96F66L, 80-MHz clock frequency, tape & reel

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC2x6x Series (Body)</b>				
(cont'd)				
SAK-XC2267M-72F80L AC-Step	SP000455314	XC2267M72F80LAAKXUMA1	PG-LQFP-100-8	as SAK-XC2267-96F80L, Base Line 576-Kbyte on-chip program memory, 32-Kbyte on-chip program/ data SRAM (PSRAM), six Full-CAN nodes, eight serial interface channels, tape & reel
SAK-XC2267M-104F80L AC-Step	SP000398034	XC2267M104F80LAAKXUMA1	PG-LQFP-100-8	as SAK-XC2267M-72F80L, 832-Kbyte on-chip program memory, tape & reel
▼SAK-XC2268I-136F128L AA-Step	SP000893180	XC2268I136F128LAAKXUMA1	PG-LQFP-100-8	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family/PremiumLine High performance CPU with 5-stage pipeline, 1,088-Kbyte on-chip program memory, 64-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area C166 family compatible), programmable watchdog timer and oscillator watchdog, four capture/compare units (CCU6), 11 + 8-channel 10-bit A/D converter, six Full-CAN nodes, ten serial interface channels, 128-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XC2268N-40F80L AA-Step	SP000720866	XC2268N40F80LAAKXUMA1	PG-LQFP-100-8	as SAK-XC2268I-136F128L, Value Line 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), two capture/ compare units (CCU6), 11 + 5-channel 10-bit A/D converter, six serial interface channels, 80-MHz clock frequency, tape & reel
▼SAK-XC2269I-136F128L AA-Step	SP000858186	XC2269I136F128LAAKXUMA1	PG-LQFP-100-8	as SAK-XC2268I-136F128L, PremiumLine two FlexRay™ nodes, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC2x8x Series (Body)</b>				
▼SAK-XC2080-96F66L AC-Step	SP000919146	XC208096F66LACKXUMA1	PG-LQFP-144-4	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family High performance CPU with 5-stage pipeline, 768-Kbyte on-chip program memory, 64-Kbyte on-chip program/data SRAM(PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, four capture/compare unit (CCU6), 16+ 8-channel 10-Bit A/D converter, five Full-CAN nodes, six serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XC2080-96F80L AC-Step	SP000904992	XC208096F80LACKXUMA1	PG-LQFP-144-4	as SAK-XC2080-96F66L, 80-MHz clock frequency, tape & reel
▼SAK-XC2080H-200F100L AB-Step	SP000905006	XC2080H200F100LABKXUMA1	PG-LQFP-144-4	as SAK-XC2080-96F66L, High Line, 1,600-Kbyte on-chip program memory, 112-Kbyte on-chip program/data SRAM (PSRAM), two FlexRay™ nodes, six Full-CAN nodes, ten serial interface channels, 100-MHz clock frequency, tape & reel
SAK-XC2287-96F66L AC-Step	SP000432418	XC228796F66LACKXUMA1	PG-LQFP-144-4	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family High performance CPU with 5-stage pipeline, 768-Kbyte on-chip program memory, 64-Kbyte on-chip program/data SRAM(PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, four capture/compare unit (CCU6), 16+ 8-channel 10-Bit A/D converter, five Full-CAN nodes, six serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2287-96F80L AC-Step	SP000300037	XC228796F80LACKXUMA1	PG-LQFP-144-4	as SAK-XC2287-96F66L, 80-MHz clock frequency, tape & reel
▼SAK-XC2287M-72F80L AA-Step	SP000455428	XC2287M72F80LAAKXUMA1	PG-LQFP-144-13	as SAK-XC2287-96F66L, Base Line, 576-Kbyte on-chip program memory, 32-Kbyte on-chip program/data SRAM (PSRAM), six Full-CAN nodes, eight serial interface channels, 80-MHz clock frequency, tape & reel
SAK-XC2287M-104F80L AA-Step	SP000436560	XC2287M104F80LAAKXUMA1	PG-LQFP-144-13	as SAK-XC2287M-72F80L, 832-Kbyte on-chip program memory, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC2x8x Series (Body)</b>				
(cont'd)				
SAK-XC2288H-200F100L AB-Step	SP000844806	XC2288H200F100LABKXUMA1	PG-LQFP-144-13	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family/High Line High performance CPU with 5-stage pipeline, 1,600-Kbyte on-chip program memory, 80-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, four capture/compare unit (CCU6), 16+ 8-channel 10-Bit A/D converter, six Full-CAN nodes, ten serial interface channels, 100-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2289H-200F100L AB-Step	SP000700616	XC2289H200F100LABKXUMA1	PG-LQFP-144-13	as SAK-XC2288H-200F100L, High Line, 1,600-Kbyte on-chip program memory, 112-Kbyte on-chip program/data SRAM (PSRAM), two FlexRay™ nodes, six Full-CAN nodes, tape & reel
▼SAK-XC2289I-136F128L AB-Step	SP000858172	XC2289I136F128LAAKXUMA1	PG-LQFP-144-16	as SAK-XC2289H-200F100, Premium Line 1,088-Kbyte on-chip program memory, 64-Kbyte on-chip program/data SRAM (PSRAM), 16+ 12-channel 12-Bit A/D converter, 128-MHz clock frequency, -40°C to 125°C, tape & reel
<b>XC229x Series (Body)</b>				
▼SAK-XC2298H-200F100L AB-Step	SP000844810	XC2298H200F100LABKXUMA1	PG-LQFP-176-12	16/32-bit single-chip microcontroller with 32-bit performance XC2200 family/High Line High performance CPU with 5-stage pipeline, 1,600-Kbyte on-chip program memory, 112-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, four capture/compare unit (CCU6), 16+ 14-channel 10-Bit A/D converter, six Full-CAN nodes, ten serial interface channels, 100-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2299H-200F100L AB-Step	SP000761326	XC2299H200F100LABKXUMA1	PG-LQFP-176-12	as SAK-XC2298H-200F100L, High Line two FlexRay™ nodes, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family XC23xx Series (Safety)</b>				
▼SAK-XC2310S-8F40R AA-Step	SP000870600	XC2310S8F40RAAKXUMA1	PG-TSSOP-38-8	16/32-bit single-chip microcontroller with 32-bit performance XC2300 family/Compact Line High performance CPU with 5-stage pipeline, 64-Kbyte on-chip program memory, 4-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, one capture/compare unit (CCU6), 8-channel 12-Bit A/D converter, two serial interface channels, 40-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XC2321D-20F66V AA-Step	SP000846748	XC23121D20F66RVAAXUMA1	PG-VQFN-48-54	16/32-bit single-chip microcontroller with 32-bit performance XC2300 family/Econo Line High performance CPU with 5-stage pipeline, 160-Kbyte on-chip program memory, 4-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, two capture/compare unit (CCU6), 10-channel 12-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XC2331D-20F66L AA-Step	SP000870660	XC23131D20F66LVAAKXUMA1	PG-LQFP-64-22	as SAK-XC2321D-20F66V, Econo Line LQFP package, 19-channel 12-Bit A/D converter, 66-MHz clock frequency, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC23xx Series (Safety)</b>				
(cont'd)				
▼SAF-XC2336A-56F80L AA-Step	SP000722428	XC2336A56F80LAAFUMA1	PG-LQFP-64-6	16/32-bit single-chip microcontroller with 32-bit performance XC2300 family High performance CPU with 5-stage pipeline, 448-Kbyte on-chip program memory, 32-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, two capture/compare unit (CCU6), 7 + 2-channel 10-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 80-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-XC2336B-40F20L AA-Step	SP000559070	XC2336B40F20LAAKUMA1	PG-LQFP-64-6	as SAF-XC2336A-56F80L, 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), 20-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2336B-40F66L AA-Step	SP000541986	XC2336B40F66LAAKUMA1	PG-LQFP-64-6	as SAK-XC2336B-40F20L, 66-MHz clock frequency, tape & reel
SAK-XC2336B-40F80L AA-Step	SP000541980	XC2336B40F80LAAKUMA1	PG-LQFP-64-6	as SAK-XC2336B-40F20L, 80-MHz clock frequency, tape & reel
▼SAH-XC2336B-40F80L AA-Step	SP000847032	XC2336B40F80LAAHXUMA1	PG-LQFP-64-6	as SAK-XC2336B-40F80L, -40°C to 110°C, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC23xx Series (Safety)</b>				
(cont'd)				
SAH-XC2361B-40F66L AA-Step	SP000365913	XC2361B40F66LAAHXUMA1	PG-LQFP-100-8	16/32-bit single-chip microcontroller with 32-bit performance XC2300 family High performance CPU with 5-stage pipeline, 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, two capture/compare unit (CCU6), 11 + 5-channel 10-Bit A/D converter, two Full-CAN nodes, six serial interface channels, 66-MHz clock frequency, -40°C to 110°C, tape & reel
SAH-XC2361B-40F80L AA-Step	SP000524448	XC2361B40F80LAAHXUMA1	PG-LQFP-100-8	as SAH-XC2361B40F66L, 80-MHz clock frequency, tape & reel
SAK-XC2364A-104F80L AA-Step	SP000526792	XC2364A104F80LAAKXUMA1	PG-LQFP-100-8	16/32-bit single-chip microcontroller with 32-bit performance, XC2300 family High performance CPU with 5-stage pipeline, 832-Kbyte on-chip program memory, 32-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, two capture/compare unit (CCU6), 11 + 5-channel 10-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 80-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2364B-40F80L AA-Step	SP000541956	XC2364B40F80LAAKXUMA1	PG-LQFP-100-8	as SAK-XC2364A-104F80L, 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC23xx Series (Safety)</b>				
(cont'd)				
SAK-XC2365A-104F80L AA-Step	SP000448776	XC2365A104F80LAAKXUMA1	PG-LQFP-100-8	16/32-bit single-chip microcontroller with 32-bit performance XC2300 family High performance CPU with 5-stage pipeline, 832-Kbyte on-chip program memory, 32-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, two capture/compare unit (CCU6), 11 + 5-channel 10-Bit A/D converter, three Full-CAN nodes, six serial interface channels, 80-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2365B-40F80L AA-Step	SP000541896	XC2365B40F80LAAKXUMA1	PG-LQFP-100-8	as SAK-XC2365A-104F80L, 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), tape & reel
SAK-XC2387A-104F80L AA-Step	SP000448780	XC2387A104F80LAAKXUMA1	PG-LQFP-144-13	16/32-bit single-chip microcontroller with 32-bit performance XC2300 family High performance CPU with 5-stage pipeline, 832-Kbyte on-chip program memory, 32-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, four capture/compare unit (CCU6), 16+ 8-channel 10-Bit A/D converter, three Full-CAN nodes, six serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-XC2387C-136F100L AB-Step	SP000722460	XC2387C136F100LABKXUMA1	PG-LQFP-144-13	as SAK-XC2387-72F66L, 1,088-Kbyte on-chip program memory, 80-Kbyte on-chip program/data SRAM (PSRAM), 100-MHz clock frequency, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC27xx Series (Powertrain)</b>				
▼SAK-XC2723X-20F66V AA-Step	SP000847088	XC2723X20F66VAAKXUMA1	PG-VQFN-48-54	16/32-bit single-chip microcontroller with 32-bit performance XC2700 family/ High performance CPU with 5-stage pipeline, 160-Kbyte on-chip program memory, 4-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, two capture/compare unit (CCU6), 10-channel 12-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 66-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XC2733X-20F66L AA-Step	SP000847086	XC2733X20F66LAAKXUMA1	PG-LQFP-64-22	as SAK-XC2723X-20F66V, LQFP package, 19-channel 12-Bit A/D converter, tape & reel
SAK-XC2734X-40F80L AA-Step	SP000627030	XC2734X40F80LAAKXUMA1	PG-LQFP-64-6	16/32-bit single-chip microcontroller with 32-bit performance XC2700 family High performance CPU with 5-stage pipeline, 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM(PSRAM), 1024 bytes on-chip special function register area(C166 family compatible), programmable watchdog timer and oscillator watchdog, two capture/compare unit (CCU6), 7 + 2-channel 10-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 80-MHz clock frequency, -40°C to 125°C, tape & reel

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC27xx Series (Powertrain)</b>				
(cont'd)				
SAK-XC2764X-40F80L AA-Step	SP000627028	XC2764X40F80LAAKXUMA1	PG-LQFP-100-8	16/32-bit single-chip microcontroller with 32-bit performance XC2700 family/ High performance CPU with 5-stage pipeline, 320-Kbyte on-chip program memory, 16-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, two capture/compare unit (CCU6), 11 + 5-channel 10-Bit A/D converter, two Full-CAN nodes, four serial interface channels, 80-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2765X-72F80L AA-Step	SP000448084	XC2765X72F80LAAKXUMA1	PG-LQFP-100-8	as SAK-XC2764X-40F80L, 576-Kbyte on-chip program memory, 32-Kbyte on-chip program/data SRAM (PSRAM), four capture/compare unit (CCU6), tape & reel
SAK-XC2765X-104F80L AA-Step	SP000443762	XC2765X104F80LAAKXUMA1	PG-LQFP-100-8	as SAK-XC2765X-72F80L, 832-Kbyte on-chip program memory, tape & reel
▼ SAK-XC2768X-136F128L AA-Step	SP000886694	XC2768X136F128LAAKXUMA1	PG-LQFP-100-8	as SAK-XC2764X-40F80L, 1,088-Kbyte on-chip program memory, 64-Kbyte on-chip program/data SRAM (PSRAM), four capture/compare unit (CCU6), six serial interface channels, 128-MHz clock frequency, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 16-bit</b>				
<b>XC2000 Family</b>				
<b>XC27xx Series (Powertrain)</b>				
(cont'd)				
SAK-XC2785X-104F80L AA-Step	SP000439080	XC2785X104F80LAAKXUMA1	PG-LQFP-144-13	16/32-bit single-chip microcontroller with 32-bit performance XC2700 family High performance CPU with 5-stage pipeline, 832-Kbyte on-chip program memory, 32-Kbyte on-chip program/data SRAM (PSRAM), 1024 bytes on-chip special function register area (C166 family compatible), programmable watchdog timer and oscillator watchdog, four capture/compare unit (CCU6), 16 + 8-channel 10-Bit A/D converter, two Full-CAN nodes, six serial interface channels, 80-MHz clock frequency, -40°C to 125°C, tape & reel
SAF-XC2786X-96F66L AC-Step	SP000369364	XC2786X96F66LACKXUMA1	PG-LQFP-144-4	as SAK-XC2785X-104F80L, 768-Kbyte on-chip program memory, 32-Kbyte on-chip program/data SRAM (PSRAM), four serial interface channels, 66-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-XC2787X-200F100L AB-Step	SP000804404	XC2787X200F100LABKXUMA1	PG-LQFP-144-13	as SAK-XC2785X-104F80L, 1,600-Kbyte on-chip program memory, 138-Kbyte on-chip program/data SRAM (PSRAM), 100-MHz clock frequency, -40°C to 125°C, tape & reel
▼SAK-XC2788X-136F128L AA-Step	SP000886706	XC2788X136F128LAAKXUMA1	PG-LQFP-144	as as SAK-XC2785X-104F80L, 1,088-Kbyte on-chip program memory, 64-Kbyte on-chip program/data SRAM (PSRAM), 128-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-XC2797X-200F100L AB-Step	SP000804406	XC2797X200F100LABKXUMA1	PG-LQFP-144-13	as SAK-XC2787-200F100L, 16 + 14-channel 10-Bit A/D converter, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 32-bit</b>				
<b>TC11xx Family</b>				
<b>TC1130 Series (Industry)</b>				
■ SAF-TC1130-L100EB-G BB-Step	SP000743586	TC1130L100EBGBFXUMA1	PG-LBGA-208-2	Industrial communication controller, TriCore™ CPU with 4-stage pipeline, floating point unit, memory management unit, 144-Kbyte on-chip SRAM, fast Ethernet controller with 10/100-Mbit/s, multifunctional general purpose timer unit with three 32-bit timer/counters, two capture and compare unit 6 for PWM signal generation, multiCAN module with four CAN nodes, 100-MHz clock frequency, -40°C to 85°C, tape & reel
■ SAF-TC1130-L150EB-G BB-Step	SP000744402	TC1130L150EBGBFXQSA1	PG-LBGA-208-2	as SAF-TC1130-L100EB-G, 150-MHz clock frequency, tray
■ SAF-TC1130-L150EB-G BB-Step	SP000743584	TC1130L150EBGBFXUMA1	PG-LBGA-208-2	as SAF-TC1130-L150EB-G, tape & reel

**TC11xx Family**  
**TC116x Series (Industry)**

SAF-TC1167-128F133HL AD-Step	SP000674708	TC1167128F133HLADFXUMA1	PG-LQFP-176-5	High performance TriCore™ CPU with 4-stage pipeline 1-Mbyte flash memory, 24-Kbyte local data memory (SRAM), 64-Kbyte data flash (16-Kbyte EEPROM emulation), 16-Kbyte instruction cache, 8-channel DMA controller, two high-speed synchronous serial channel (SSC), one 16-channel A/D converter unit with selectable 8-bit, 10-bit, or 12-bit supporting 32 input channels, on-chip debug support (OCDS level 1 and 2), multiCAN module with two CAN nodes, 133-MHz clock frequency, -40°C to 85°C, tape & reel
SAK-TC1197-256F180E AC-Step	SP000627556	TC1197256F180EACKXUMA1	PG-BGA-416-10	High performance TriCore™ CPU with 4-stage pipeline 2-Mbyte flash memory, 40-Kbyte local data memory (SRAM), 64-Kbyte data flash (16-Kbyte EEPROM emulation), 16-Kbyte instruction cache, 16-channel DMA controller, two high-speed synchronous serial channel (SSC), one 16-channel A/D converter unit with selectable 8-bit, 10-bit, or 12-bit supporting 32 input channels, on-chip debug support (OCDS level 1 and 2), multiCAN module with four CAN nodes, 180-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-TC1197-512F180E AC-Step	SP000602872	TC1197512F180EACKXUMA1	PG-BGA-416-10	as SAK-TC1197-256F180E, 4-Mbyte flash memory, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 32-bit</b>				
<b>TC176x Family (Powertrain)</b>				
SAK-TC1736-128F80HL AC-Step	SP000366518	TC1736128F80HLAAKXQMA1	PG-LQFP-144-10	High performance TriCore™ CPU with 4-stage pipeline 1-Mbyte flash memory, 36-Kbyte local data memory (LDRAM), 32-Kbyte data flash (8-Kbyte EEPROM emulation), 8-Kbyte instruction cache, 8-channel DMA controller, two high-speed synchronous serial channel (SSC), 10-bit A/D conversion, on-chip debug support (OCDS level 1), multiCAN module with two CAN nodes, power management system, 80-MHz clock frequency, -40°C to 125°C, tray
▼SAK-TC1766-192F80HL BD-Step	SP000771726	TC1766192F80HLBDKXUMA2	PG-LQFP-176-5	High performance TriCore™ CPU with 4-stage pipeline 1.5-Mbyte embedded program flash, 32-Kbyte data flash, 76-Kbyte on-chip SRAM, one 32-channel analog-to-digital converter unit with 8-, 10- or 12-bit resolution, general purpose timer array module, two synchronous serial channels with programmable data length and shift direction, 2-channel fast analog-to-digital converter unit, OCDS level 1 and 2, multiCAN module with two CAN nodes, 80-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-TC1767-256F133HL AD-Step	SP000458056	TC1767256F133HLADKXUMA1	PG-LQFP-176-5	as SAK-TC1766-192F80HL, 2-Mbyte embedded program flash, 64-Kbyte data flash, 24-Kbyte on-chip SRAM, 133-MHz clock frequency, tape & reel
SAK-TC1767-256F80HL AD-Step	SP000442086	TC1767256F80HLADKXUMA1	PG-LQFP-176-5	as SAK-TC1767-256F133HL, 80-MHz clock frequency, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 32-bit</b>				
<b>TC178x Family (Powertrain)</b>				
▼SAK-TC1782-320F180HR BA-Step	SP000862218	TC1782F320F180HRBAKZZA1	PG-LQFP-176-10	High performance TriCore™ CPU with 4-stage pipeline (AUDO MAX) 2,5-Mbyte flash memory with ECC, 176-Kbyte local data memory (SRAM), 128-Kbyte data flash (EEPROM emulation), 16-Kbyte instruction cache, 16-channel DMA controller, three high-speed synchronous serial channel (SSC), one 16-channel A/D converter unit with selectable 8-bit, 10-bit, or 12-bit supporting 32 input channels, on-chip debug support (OCDS level 1), 2-channel FlexRay™ module, multiCAN module with three CAN nodes, 180-MHz clock frequency, -40°C to 125°C, tape & reel
<b>TC179x Family</b>				
▼SAK-TC1793F-512F270EB AB-Step	SP000887646	TC1793F512F270EBABKXUMA1	PG-BGA-416-4	High performance TriCore™ CPU with 6-stage pipeline (AUDO MAX) 4-Mbyte embedded program flash with ECC, 192-Kbyte data flash memory usable for EEPROM emulation, 16-Kbyte instruction cache, 24 DMA channels, 44 channel analog-to-digital converter, 10-bit A/D conversion, on-chip debug support (OCDS level 1), 2-channel FlexRay™ module, multiCAN module with four CAN nodes, 270-MHz clock frequency, -40°C to 125°C, tray
▼SAK-TC1796-256F150E BC-Step	SP000097527	TC1796256F150EBCKDUMA1	PG-BGA-416-4	High performance TriCore™ CPU with 4-stage pipeline 2-Mbyte embedded program flash with ECC, 128-Kbyte data flash memory usable for EEPROM emulation, 136-Kbyte data memory, 16-Kbyte instruction cache, 16-channel DMA controller, two 16-channel A/D converter units with selectable 8-bit, 10-bit, or 12-bit resolution, on-chip debug support (OCDS level 1 and 2), multiCAN module with four CAN nodes, 150-MHz clock frequency, -40°C to 125°C, tray
SAK-TC1796-256F150E BE-Step	SP000438972	TC1796256F150EBEKXUMA1	PG-BGA-416-4	as SAK-TC1796-256F150E, BE-Step, tape & reel

SMD = Surface Mounted Device

# Microcontrollers

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 32-bit</b>				
<b>TC179x Family (Powertrain)</b>				
(cont'd)				
▼ SAK-TC1797-384F150E AC-Step	SP000608762	TC1797384F150EACKXUMA1	PG-BGA-416-10	High performance TriCore™ CPU with 4-stage pipeline 3-Mbyte embedded program flash with ECC, 64-Kbyte data flash memory usable for EEPROM emulation, 128-Kbyte data memory, 16-Kbyte instruction cache, 16-channel DMA controller, two 16-channel A/D converter units with selectable 8-bit, 10-bit, or 12-bit resolution, on-chip debug support (OCDS level 1 and 2), multiCAN module with four CAN nodes, 150-MHz clock frequency, -40°C to 125°C, tape & reel
SAK-TC1797-512F180E AC-Step	SP000478918	TC1797512F180E ACKXUMA1	PG-BGA-416-10	as SAK-TC1797-384F150E 4-Mbyte embedded program flash with ECC, 180-MHz clock frequency, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Microcontrollers, 32-bit</b>				
<b>XCM4500 Family (Industry)</b>				
▼XMC4500-E144F1024 AA-Step	SP000957888	XMC4500E144F1024AAXQSA1	PG-LFBGA-144-9	High performance ARM <sup>®</sup> Cortex™-M4 CPU 1024-Kbyte embedded program flash, Ethernet MAC module, USB 2.0 host, memory protection unit (MPU), floating point unit, 64-Kbyte data memory, 4-Kbyte instruction cache, 12-channel DMA controller, two capture/compare units (CCU8) four 8-channel A/D converter units of 8-bit resolution, on-chip debug support, multiCAN module with three CAN nodes, -40°C to 85°C, tray
▼XMC4500-F100F1024 AA-Step	SP000983560	XMC4500F100F1024AAXQMA1	PG-LQFP-100-11	as XMC4500-E144F1024, LQFP-100 package, tray
▼XMC4500-F100F768 AA-Step	SP000983562	XMC4500F100F768AAXQMA1	PG-LQFP-100-11	as XMC4500-F100F1024, 768-Kbyte embedded program flash, tray
▼XMC4500-F100K1024 AA-Step	SP000957884	XMC4500F100K1024AAXQSA1	PG-LQFP-100-11	as XMC4500-F100F1024, -40°C to 125°C, tray
▼XMC4500-F100K768 AA-Step	SP000965452	XMC4500F100K768AAXQMA1	PG-LQFP-100-11	as XMC4500-F100F768, -40°C to 125°C, tray
▼XMC4500-F144F1024 AA-Step	SP000983572	XMC4500F144F1024AAXQMA1	PG-LQFP-144-18	as XMC4500-E144F1024, LQFP-144 package, tray
▼XMC4500-F144F768 AA-Step	SP000983574	XMC4500F144F768AAXQMA1	PG-LQFP-144-18	as XMC4500-F144F1024, 768-Kbyte embedded program flash, tray
▼XMC4500-F144K1024 AA-Step	SP000957886	XMC4500F144K1024AAXQMA1	PG-LQFP-144-18	as XMC4500-E144F1024, -40°C to 125°C, tray
▼XMC4500-F144K768 AA-Step	SP000965450	XMC4500F144K768AAXQMA1	PG-LQFP-144-18	as XMC4500-F144F768, -40°C to 125°C, tray
▼XMC4502-F100F768 AA-Step	SP000983564	XMC4502F100F768AAXQMA1	PG-LQFP-100-11	as XMC4500-F100F768, no Ethernet MAC module, tray
▼XMC4502-F100K768 AA-Step	SP000965454	XMC4502F100K768AAXQMA1	PG-LQFP-100-11	as XMC4502-F100F768, -40°C to 125°C, tray
▼XMC4504-F100F512 AA-Step	SP000983566	XMC4504F100F512AAXQMA1	PG-LQFP-100-11	as XMC4502-F100F768, 512-Kbyte embedded program flash, no USB, no MultiCAN, tray
▼XMC4504-F100K512 AA-Step	SP000965456	XMC4504F100K512AAXQMA1	PG-LQFP-100-11	as XMC4504-F100F512, -40°C to 125°C, tray
▼XMC4504-F144F512 AA-Step	SP000983586	XMC4504F144F512AAXQMA1	PG-LQFP-100-11	as XMC4504-F100F512, LQFP-144 package, tray
▼XMC4504-F144K512 AA-Step	SP000983584	XMC4504F144K512AAXQMA1	PG-LQFP-100-11	as XMC4504-F144F512, -40°C to 125°C, tray

SMD = Surface Mounted Device





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Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

## Automotive N-Channel MOSFETs

## 30 V

IPB180N03S4L-H	SP000555050	IPB180N03S4LH0ATMA1	PG-TO263-7-3	30	0.95	1.0 ... 2.2	180
IPB180N03S4L-01	SP000555002	PB180N03S4L01ATMA1	PG-TO263-7-3	30	1.05	1.0 ... 2.2	180
IPB22N03S4L-15	SP000275308	IPB22N03S4L15ATMA1	PG-TO263-3-2	30	1.5	1.0 ... 2.2	22
IPB80N03S4L-02	SP000273282	IPB80N03S4L02ATMA1	PG-TO263-3-2	30	2.3	1.0 ... 2.2	80
IPB80N03S4L-03	SP000274982	IPB80N03S4L02ATMA1	PG-TO263-3-2	30	3.3	1.0 ... 2.2	80
IPD90N03S4L-02	SP000273284	IPD30N03S4L14ATMA1	PG-TO252-3-11	30	2.2	1.0 ... 2.2	90
IPD90N03S4L-03	SP000274978	IPD90N03S4L03ATMA1	PG-TO252-3-11	30	3.0	1.0 ... 2.2	90
IPD70N03S4L-04	SP000274986	IPD70N03S4L04ATMA1	PG-TO252-3-11	30	4.3	1.0 ... 2.2	70
IPD50N03S4L-06	SP000415580	IPD50N03S4L06ATMA1	PG-TO252-3-11	30	5.5	1.2 ... 2.0	50
IPD50N03S2L-06	SP000254461	IPD50N03S2L06ATMA1	PG-TO252-3-11	30	6.4	1.2 ... 2.0	50
IPD30N03S2L-07	SP000254463	IPD30N03S2L07ATMA1	PG-TO252-3-11	30	6.7	1.2 ... 2.0	30
IPD50N03S2-07	SP000254462	IPD50N03S207ATMA1	PG-TO252-3-11	30	7.3	2.1 ... 4.0	50
IPD40N03S4L-08	SP000475916	IPD40N03S4L08ATMA1	PG-TO252-3-11	30	8.0	1.0 ... 2.2	40
IPD30N03S4L-09	SP000415578	IPD30N03S4L09ATMA1	PG-TO252-3-11	30	9.0	1.0 ... 2.2	30
IPD30N03S2L-10	SP000254465	IPD30N03S2L10ATMA1	PG-TO252-3-11	30	10	1.2 ... 2.0	30
IPD30N03S4L-14	SP000275919	IPD30N03S4L14ATMA1	PG-TO252-3-11	30	13.6	1.0 ... 2.2	30
IPD30N03S2L-20	SP000254466	IPD30N03S2L20ATMA1	PG-TO252-3-11	30	20	1.2 ... 2.0	30
IPI22N03S4L-15	SP000277016	IPI22N03S4L15AKSA1	PG-TO262-3-1	30	1.5	1.0 ... 2.2	22
IPI80N03S4L-03	SP000273285	IPI80N03S4L03AKSA1	PG-TO262-3-1	30	2.6	1.0 ... 2.2	80
IPI80N03S4L-04	SP000274983	IPI80N03S4L04AKSA1	PG-TO262-3-1	30	3.3	1.0 ... 2.2	80
IPP22N03S4L-15	SP000275290	IPP22N03S4L15AKSA1	PG-TO220-3-1	30	1.5	1.0 ... 2.2	22
IPP80N03S4L-03	SP000275328	IPP80N03S4L03AKSA1	PG-TO220-3-1	30	2.4	1.0 ... 2.2	80
IPP80N03S4L-04	SP000274981	IPP80N03S4L04AKSA1	PG-TO220-3-1	30	3.3	1.0 ... 2.2	80
■ SPB80N03S2-03 G	SP000200139	SPB80N03S203GATMA1	PG-TO263-3-2	30	3.4	1.0 ... 2.2	80
SPD50N03S2L-06 G	SP000443924	SPD50N03S2L06GBTMA1	PG-TO252-3-11	30	6.4	1.0 ... 2.2	50
▼ SPD30N03S2L-07 G	SP000443922	SPD30N03S2L07GBTMA1	PG-TO252-3-11	30	6.7	1.2 ... 2.0	30
SPD50N03S2-07 G	SP000443920	SPD50N03S207GBTMA1	PG-TO252-3-11	30	7.3	2.1 ... 4.0	50
SPD30N03S2L-10 G	SP000443918	SPD30N03S2L10GBTMA1	PG-TO252-3-11	30	10	1.0 ... 2.2	30
SPD30N03S2L-20 G	SP000443768	SPD30N03S2L20GBTMA1	PG-TO252-3-11	30	20	1.0 ... 2.2	30
■ SPP80N03S2L-04	SP000013902	SPP80N03S2L04AKSA1	PG-TO220-3-1	30	4.3	1.2 ... 2.0	80
■ SPP80N03S2L-05	SP000013466	SPP80N03S2L05AKSA1	PG-TO220-3-1	30	5.0	1.2 ... 2.0	80

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

## Automotive N-Channel MOSFETs

### 40 V

IPB180N04S4-00	SP000646176	IPB180N04S400ATMA1	PG-TO263-7-3	40	0.98	2.0 ... 4.0	180
IPB180N04S4-H0	SP000711248	IPB180N04S4H0ATMA1	PG-TO263-7-3	40	1.1	2.0 ... 4.0	180
IPB180N04S4-H1	SP000705694	IPB180N04S401ATMA1	PG-TO263-7-3	40	1.3	2.0 ... 4.0	180
IPB120N04S4-01	SP000705700	IPB120N04S401ATMA1	PG-TO263-7-3	40	1.5	2.0 ... 4.0	120
IPB160N04S4-H1	SP000711252	IPB160N04S4H1ATMA1	PG-TO263-7-3	40	1.6	2.0 ... 4.0	160
■ IPB180N04S3-02	SP000254821	IPB180N04S302ATMA1	PG-TO263-7-3	40	1.5	2.1 ... 4.0	180
■ IPB180N04S3-02	SP000382560	IPB180N04S302ATMA2	PG-TO263-7-3	40	1.5	2.1 ... 4.0	180
IPB120N04S4-02	SP000764726	IPB120N04S402ATMA1	PG-TO263-7-3	40	1.8	2.0 ... 4.0	120
▼ IPB160N04S4-02D	SP000850452	IPB160N04S402DXTMA1	PG-TO263-7-3	40	1.9	2.0 ... 4.0	160
■ IPB120N04S3-02	SP000261216	IPB120N04S302ATMA1	PG-TO263-7-3	40	2.0	2.1 ... 4.0	120
IPB90N04S4-02	SP000646182	IPB90N04S402ATMA1	PG-TO263-3-2	40	2.1	2.0 ... 4.0	90
▼ IPB100N04S4-02D	SP000850458	IPB100N04S402DXTMA1	PG-TO263-3-2	40	2.2	2.0 ... 4.0	100
IPB100N04S4-H2	SP000711274	IPB100N04S4H2ATMA1	PG-TO263-7-3	40	2.4	2.0 ... 4.0	100
■ IPB160N04S3-H2	SP000254818	IPB160N04S3H2ATMA1	PG-TO263-7-3	40	2.4	2.1 ... 4.0	160
IPB160N04S2L-03	SP000218153	IPB160N04S2L03ATMA1	PG-TO263-7-3	40	2.7	1.2 ... 2.0	160
■ IPB80N04S3-03	SP000260848	IPB80N04S303ATMA1	PG-TO263-3-2	40	2.8	2.1 ... 4.0	80
IPB160N04S2-03	SP000218151	IPB160N04S203ATMA1	PG-TO263-7-3	40	2.9	2.1 ... 4.0	160
IPB160N04S2-03	SP000385420	IPB160N04S203ATMA2	PG-TO263-7-3	40	2.9	2.1 ... 4.0	160
■ IPB100N04S3-03	SP000260847	IPB100N04S303ATMA1	PG-TO263-3-2	40	3.0	2.1 ... 4.0	100
IPB80N04S2L-03	SP000220158	IPB80N04S2L03ATMA1	PG-TO263-3-2	40	3.1	1.2 ... 2.0	80
IPB100N04S2L-03	SP000219065	IPB100N04S2L03ATMA1	PG-TO263-3-2	40	3.3	1.2 ... 4.0	100
IPB80N04S4-03	SP000671628	IPB80N04S403ATMA1	PG-TO263-3-2	40	3.3	1.2 ... 4.0	80
IPB80N04S2-04	SP000218154	IPB80N04S204ATMA1	PG-TO263-3-2	40	3.4	2.1 ... 4.0	80
IPB100N04S2-04	SP000219061	IPB100N04S204ATMA1	PG-TO263-3-2	40	3.6	2.1 ... 4.0	100
■ IPB80N04S3-04	SP000261217	IPB80N04S304ATMA1	PG-TO263-3-2	40	4.0	2.1 ... 4.0	80
IPB80N04S2-H4	SP000218165	IPB80N04S2H4ATMA1	PG-TO263-3-2	40	4.0	2.1 ... 4.0	80
IPB80N04S4L-04	SP000646180	IPB80N04S4L04ATMA1	PG-TO263-3-2	40	4.0	1.2 ... 2.2	80
IPB80N04S4-04	SP000646178	IPB80N04S404ATMA1	PG-TO263-3-2	40	4.2	2.0 ... 4.0	80
■ IPB80N04S3-H4	SP000415564	IPB80N04S3H4ATMA1	PG-TO263-3-2	40	4.5	2.1 ... 4.0	80
■ IPB80N04S3-06	SP000254822	IPB80N04S306ATMA1	PG-TO263-3-2	40	6.0	2.1 ... 4.0	80
IPB70N04S4-06	SP000711476	IPB70N04S406ATMA1	PG-TO263-3-2	40	6.2	2.0 ... 4.0	70
■ IPB70N04S3-07	SP000279556	IPB70N04S307ATMA1	PG-TO263-3-2	40	6.8	2.1 ... 4.0	70
IPB45N04S4-08	SP000711444	IPB45N04S4L08ATMA1	PG-TO263-3-2	40	7.6	2.0 ... 4.0	45
IPD100N04S4-02	SP000646184	IPD100N04S402ATMA1	PG-TO252-3-1	40	2.0	2.0 ... 4.0	100
IPD90N04S4-02	SP000673890	IPD90N04S402ATMA1	PG-TO252-3-1	40	2.4	2.0 ... 4.0	90
IPD90N04S4-03	SP000671630	IPD90N04S403ATMA1	PG-TO252-3-1	40	3.2	2.0 ... 4.0	90
■ IPD90N04S3-04	SP000261222	IPD90N04S304ATMA1	PG-TO252-3-1	40	3.8	2.1 ... 4.0	90
■ IPD90N04S3-04	SP000465878	IPD90N04S304ATMA2	PG-TO252-3-1	40	3.8	2.1 ... 4.0	90
IPD90N04S4L-04	SP000646188	IPD90N04S4L04ATMA1	PG-TO252-3-1	40	3.8	1.2 ... 2.2	90
IPD90N04S4-04	SP000646186	IPD90N04S404ATMA1	PG-TO252-3-1	40	4.1	2.0 ... 4.0	90
■ IPD90N04S3-H4	SP000415584	IPD90N04S3H4ATMA1	PG-TO252-3-1	40	4.3	2.1 ... 4.0	90
IPD90N04S4-05	SP000711460	IPD90N04S405ATMA1	PG-TO252-3-1	40	5.2	2.0 ... 4.0	86
IPD75N04S4-06	SP000711472	IPD75N04S406ATMA1	PG-TO252-3-1	40	5.9	2.0 ... 4.0	75
■ IPD80N04S3-06	SP000261220	IPD80N04S306ATMA1	PG-TO252-3-1	40	6.0	2.1 ... 4.0	80
■ IPD80N04S3-06	SP000465874	IPD80N04S306ATMA2	PG-TO252-3-1	40	6.0	2.1 ... 4.0	80
■ IPD70N04S3-07	SP000261221	IPD70N04S307ATMA1	PG-TO252-3-1	40	6.8	2.1 ... 4.0	70
IPD50N04S4L-08	SP000711456	IPD50N04S4L08ATMA1	PG-TO252-3-1	40	7.3	1.2 ... 2.2	50

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

## Automotive N-Channel MOSFETs

40 V  
(cont'd)

IPD50N04S4-08	SP000711450	IPD50N04S408ATMA1	PG-TO252-3-1	40	7.9	2.0 ... 4.0	50
IPD50N04S3-08	SP000261218	IPD50N04S308ATMA1	PG-TO252-3-1	40	8.0	2.1 ... 4.0	50
IPD50N04S3-08	SP000470240	IPD50N04S308ATMA2	PG-TO252-3-1	40	8.0	2.1 ... 4.0	50
IPD50N04S3-09	SP000415582	IPD50N04S309ATMA1	PG-TO252-3-1	40	9.0	2.1 ... 4.0	50
IPD50N04S4-10	SP000711466	IPD50N04S410ATMA1	PG-TO252-3-1	40	9.3	2.0 ... 4.0	50
IPG20N04S4L-07	SP000705484	IPG20N04S4L07ATMA1	PG-TDSON-8-4	40	2 x 7.2	1.2 ... 2.2	20
IPG20N04S4L-08	SP000705576	IPG20N04S4L08ATMA1	PG-TDSON-8-4	40	2 x 8.2	1.2 ... 2.2	20
IPG20N04S4-08	SP000705582	IPG20N04S408ATMA1	PG-TDSON-8-4	40	2 x 7.6	2.0 ... 4.0	20
IPG20N04S4-09	SP000705570	IPG20N04S409ATMA1	PG-TDSON-8-4	40	2 x 8.6	2.0 ... 4.0	20
IPG20N04S4L-11	SP000705564	IPG20N04S4L11ATMA1	PG-TDSON-8-4	40	2 x 11.6	1.2 ... 2.2	20
IPG20N04S4-12	SP000705560	IPG20N04S412ATMA1	PG-TDSON-8-4	40	2 x 12.2	2.0 ... 4.0	20
IPI120N04S4-01	SP000705722	IPI120N04S401AKSA1	PG-TO262-3-1	40	1.5	2.0 ... 4.0	120
IPI120N04S4-02	SP000764742	IPI120N04S402AKSA1	PG-TO262-3-1	40	1.8	2.0 ... 4.0	120
IPI90N04S4-04	SP000646194	IPI90N04S402AKSA1	PG-TO262-3-1	40	2.1	2.0 ... 4.0	90
■ IPI120N04S3-02	SP000261225	IPI120N04S302AKSA1	PG-TO262-3-1	40	2.3	2.1 ... 4.0	120
IPI100N04S4-H2	SP000711282	IPI100N04S4H2AKSA1	PG-TO262-3-1	40	2.4	2.0 ... 4.0	100
■ IPI100N04S4-03M	SP000850484	IPI100N04S403DXKSA1	PG-TO262-3-1	40	2.5	2.1 ... 4.0	100
▼ IPI100N04S3-03	SP000465798	IPI100N04S303MATMA2	PG-TO262-3-1	40	2.5	2.0 ... 4.0	100
■ IPI80N04S3-03	SP000261238	IPI80N04S303AKSA1	PG-TO262-3-1	40	3.0	2.1 ... 4.0	80
■ IPI100N04S3-03	SP000261223	IPI100N04S303AKSA1	PG-TO262-3-1	40	3.3	2.1 ... 4.0	100
IPI80N04S4-03	SP000671634	IPI80N04S403AKSA1	PG-TO262-3-1	40	3.3	2.0 ... 4.0	80
IPI80N04S2-04	SP000219058	IPI80N04S204AKSA1	PG-TO262-3-1	40	3.7	2.1 ... 4.0	80
IPI80N04S2-H4	SP000218171	IPI80N04S2H4AKSA1	PG-TO262-3-1	40	4.0	2.1 ... 4.0	80
IPI80N04S4L-04	SP000646192	IPI80N04S4L04AKSA1	PG-TO262-3-1	40	4.0	1.2 ... 2.0	80
IPI80N04S4-04	SP000646190	IPI80N04S404AKSA1	PG-TO262-3-1	40	4.2	2.0 ... 4.0	80
■ IPI80N04S3-04	SP000261226	IPI80N04S304AKSA1	PG-TO262-3-1	40	4.3	2.1 ... 4.0	80
■ IPI80N04S3-H4	SP000415630	IPI80N04S3H4AKSA1	PG-TO262-3-1	40	4.8	2.1 ... 4.0	80
IPI70N04S4-06	SP000711484	IPI70N04S406AKSA1	PG-TO262-3-1	40	6.2	2.0 ... 4.0	70
■ IPI80N04S3-06	SP000261237	IPI80N04S306AKSA1	PG-TO262-3-1	40	6.3	2.1 ... 4.0	80
■ IPI70N04S3-03	SP000279551	IPI70N04S307AKSA1	PG-TO262-3-1	40	6.8	2.1 ... 4.0	70
IPP120N04S4-01	SP000705704	IPP120N04S401AKSA1	PG-TO220-3-1	40	1.5	2.0 ... 4.0	120
IPP120N04S4-02	SP000764734	IPP120N04S402AKSA1	PG-TO220-3-1	40	1.8	2.0 ... 4.0	120
IPP90N04S4-02	SP000646200	IPP90N04S402AKSA1	PG-TO220-3-1	40	2.1	2.0 ... 4.0	90
■ IPP120N04S3-02	SP000261228	IPP120N04S302AKSA1	PG-TO220-3-1	40	2.3	2.1 ... 4.0	120
IPP100N04S4-H2	SP000711278	IPP100N04S4H2AKSA1	PG-TO220-3-1	40	2.4	2.0 ... 4.0	100
▼ IPP100N04S3-03	SP000850486	IPP100N04S403DXKSA1	PG-TO220-3-1	40	2.5	2.0 ... 4.0	100
■ IPP80N04S3-03	SP000261229	IPP80N04S303AKSA1	PG-TO220-3-1	40	3.0	2.1 ... 4.0	80
IPP80N04S2L-03	SP000219063	IPP80N04S2L03AKSA1	PG-TO220-3-1	40	3.3	1.2 ... 2.0	80
IPP100N04S2L-03	SP000219062	IPP100N04S2L03AKSA1	PG-TO220-3-1	40	3.3	1.2 ... 2.0	100
IPP100N04S2-04	SP000219056	IPP100N04S204AKSA1	PG-TO220-3-1	40	3.3	2.1 ... 4.0	100
■ IPP100N04S3-03	SP000261227	IPP100N04S303AKSA1	PG-TO220-3-1	40	3.3	2.1 ... 4.0	100
IPP80N04S4-03	SP000671756	IPP80N04S403AKSA1	PG-TO220-3-1	40	3.3	2.0 ... 4.0	80
IPP80N04S2-04	SP000219054	IPP80N04S204AKSA1	PG-TO220-3-1	40	3.4	2.1 ... 4.0	80
IPP80N04S2-H4	SP000218169	IPP80N04S2H4AKSA1	PG-TO220-3-1	40	4.0	2.1 ... 4.0	80
IPP80N04S4L-04	SP000646198	IPP80N04S4L04AKSA1	PG-TO220-3-1	40	4.0	1.2 ... 2.0	80
IPP80N04S4-04	SP000646196	IPP80N04S404AKSA1	PG-TO220-3-1	40	4.2	2.0 ... 4.0	80

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

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(cont'd)

■ IPP80N04S3-04	SP000261230	IPP80N04S304AKSA1	PG-TO220-3-1	40	4.3	2.1 ... 4.0	80
■ IPP80N04S3-H4	SP000415702	IPP80N04S3H4AKSA1	PG-TO220-3-1	40	4.3	2.1 ... 4.0	80
■ IPP70N04S4-06	SP000711480	IPP70N04S406AKSA1	PG-TO220-3-1	40	6.2	2.0 ... 4.0	70
■ IPP70N04S3-07	SP000279559	IPP70N04S307AKSA1	PG-TO220-3-1	40	6.2	2.1 ... 4.0	80
■ IPP80N04S3-06	SP000261233	IPP80N04S306AKSA1	PG-TO220-3-1	40	6.3	2.1 ... 4.0	80
■ SPB160N04S2L-03	SP000014639	SPB160N04S2L03DTMA1	P-TO263-3-2	40	2.7	1.2 ... 2.0	160
■ SPB160N04S2-03	SP000014263	SPB160N04S203CTMA1	P-TO263-7-3	40	2.9	2.1 ... 4.0	160

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BSO604NS2	SP000396268	BSO604NS2XUMA1	PG-DSO-8-5	55	35	1.2 ... 2.0	5.0
BSP603S2L	SP000431792	BSP603S2LHUMA1	SOT223	55	33	1.2 ... 2.0	5.2
IPB100N06S2L-05	SP000219003	IPB100N06S2L05ATMA1	PG-TO263-3-2	55	4.4	1.2 ... 2.0	100
IPB80N06S2L-05	SP000219004	IPB80N06S2L05ATMA1	PG-TO263-3-2	55	4.5	1.2 ... 2.0	80
IPB100N06S2-05	SP000218874	IPB100N06S205ATMA1	PG-TO263-3-2	55	4.7	2.1 ... 4.0	100
IPB80N06S2-05	SP000218877	IPB80N06S205ATMA1	PG-TO263-3-2	55	4.8	2.1 ... 4.0	80
IPB80N06S2L-H5	SP000219068	IPB80N06S2LH5ATMA1	PG-TO263-3-2	55	5.0	1.2 ... 2.0	80
IPB80N06S2-H5	SP000377048	IPB80N06S2H5AUMA1	PG-TO263-3-2	55	5.5	2.1 ... 4.0	80
IPB80N06S2-H5	SP000218162	IPB80N06S2H5ATMA1	PG-TO263-3-2	55	5.5	2.1 ... 4.0	80
IPB80N06S2L-06	SP000218163	IPB80N06S2L06ATMA1	PG-TO263-3-2	55	6.3	1.2 ... 2.0	80
IPB80N06S2-07	SP000218818	IPB80N06S207ATMA1	PG-TO263-3-2	55	6.6	2.1 ... 4.0	80
IPB80N06S2-07	SP000265871	IPB80N06S207ATMA2	PG-TO263-3-2	55	6.6	2.1 ... 4.0	80
IPB80N06S2L-07	SP000218867	IPB80N06S2L07ATMA1	PG-TO263-3-2	55	7.0	1.2 ... 2.0	80
IPB80N06S2-08	SP000218830	IPB80N06S208ATMA1	PG-TO263-3-2	55	8.0	2.1 ... 4.0	80
IPB80N06S2L-09	SP000218743	IPB80N06S2L09ATMA1	PG-TO263-3-2	55	8.5	1.2 ... 2.0	80
IPB80N06S2-09	SP000218741	IPB80N06S209ATMA1	PG-TO263-3-2	55	9.1	2.1 ... 4.0	80
IPB80N06S2L-11	SP000218177	IPB80N06S2L11ATMA1	PG-TO263-3-2	55	11	1.2 ... 2.0	80
IPB77N06S2-12	SP000218173	IPB77N06S212ATMA1	PG-TO263-3-2	55	12	2.1 ... 4.0	77
IPD30N06S2L-13	SP000252167	IPD30N06S2L13ATMA1	PG-TO252-3-11	55	12.7	1.2 ... 2.0	30
IPD30N06S2L-13	SP000262072	IPD30N06S2L13ATMA2	PG-TO252-3-11	55	12.7	1.2 ... 2.0	30
IPD50N06S2L-13	SP000252172	IPD50N06S2L13ATMA1	PG-TO252-3-11	55	13	1.2 ... 2.0	50
IPD50N06S2-14	SP000252171	IPD50N06S214ATMA1	PG-TO252-3-11	55	14.4	2.1 ... 4.0	50
IPD30N06S2-15	SP000252160	IPD30N06S215ATMA1	PG-TO252-3-11	55	14.7	2.1 ... 4.0	30
IPD30N06S2-23	SP000252166	IPD30N06S223ATMA1	PG-TO252-3-11	55	23	2.1 ... 4.0	30
IPD30N06S2L-23	SP000262073	IPD30N06S2L23ATMA2	PG-TO252-3-11	55	23	1.2 ... 2.0	30
IPD30N06S2L-23	SP000252168	IPD30N06S2L23ATMA1	PG-TO252-3-11	55	23	1.2 ... 2.0	30
IPD26N06S2L-35	SP000252165	IPD26N06S2L35ATMA1	PG-TO252-3-11	55	35	1.2 ... 2.0	26
IPD25N06S2-40	SP000252164	IPD25N06S240ATMA1	PG-TO252-3-11	55	40	2.1 ... 4.0	25
IPD14N06S2-80	SP000252161	IPD14N06S280ATMA1	PG-TO252-3-11	55	80	2.1 ... 4.0	14
IPG20N06S2L-35	SP000613718	IPG20N06S2L35ATMA1	PG-TDSON-8-4	55	2 x 35	1.2 ... 2.0	20
IPG20N06S2L-50	SP000613728	IPG20N06S2L50ATMA1	PG-TDSON-8-4	55	2 x 50	1.2 ... 2.0	20
IPG20N06S2L-65	SP000613722	IPG20N06S2L65ATMA1	PG-TDSON-8-4	55	2 x 65	1.2 ... 2.0	20
IPI80N06S2L-05	SP000219002	IPI80N06S2L05AKSA1	PG-TO262-3-1	55	4.8	1.2 ... 2.0	80
IPI80N06S2-07	SP000218817	IPI80N06S207AKSA1	PG-TO262-3-1	55	6.6	2.1 ... 4.0	80

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

**Automotive N-Channel MOSFETs****55V**

(cont'd)

IPI80N06S2-08	SP000218828	IPI80N06S208AKSA1	PG-TO262-3-1	55	8.0	2.1 ... 4.0	80
IPI80N06S2L-11	SP000218176	IPI80N06S2L11AKSA1	PG-TO262-3-1	55	11	1.2 ... 2.0	80
IPP100N06S2-05	SP000218872	IPP100N06S205AKSA1	PG-TO220-3-1	55	4.7	2.1 ... 4.0	100
IPP100N06S2L-05	SP000218879	IPP100N06S2L05AKSA1	PG-TO220-3-1	55	4.7	1.2 ... 2.0	100
IPP80N06S2L-05	SP000219000	IPP100N08S207AKSA1	PG-TO220-3-1	55	4.8	1.2 ... 2.0	80
IPP80N06S2-05	SP000218873	IPP80N06S205AKSA1	PG-TO220-3-1	55	5.1	2.1 ... 4.0	80
IPP80N06S2L-H5	SP000219067	IPP80N06S2LH5AKSA1	PG-TO220-3-1	55	5.3	1.2 ... 2.0	80
IPP80N06S2-H5	SP000218155	IPP80N06S2H5AKSA1	PG-TO220-3-1	55	5.5	2.1 ... 4.0	80
IPP80N06S2-07	SP000218810	IPP80N06S207AKSA1	PG-TO220-3-1	55	6.3	2.1 ... 4.0	80
IPP80N06S2-07	SP000781442	IPP80N06S207AKSA2	PG-TO220-3-1	55	6.3	2.1 ... 4.0	80
IPP80N06S2L-06	SP000218824	IPP80N06S2L06AKSA1	PG-TO220-3-1	55	6.3	1.2 ... 2.0	80
IPP80N06S2L-07	SP000218831	IPP80N06S2L07AKSA1	PG-TO220-3-1	55	7.0	1.2 ... 2.0	80
IPP80N06S2-08	SP000218826	IPP80N06S208AKSA1	PG-TO220-3-1	55	8.0	2.1 ... 4.0	80
IPP80N06S2-09	SP000218740	IPP80N06S209AKSA1	PG-TO220-3-1	55	8.5	2.1 ... 4.0	80
IPP80N06S2L-09	SP000218742	IPP80N06S2L09AKSA1	PG-TO220-3-1	55	9.1	1.2 ... 2.0	80
IPP80N06S2L-11	SP000218175	IPP80N06S2L11AKSA1	PG-TO220-3-1	55	11	1.2 ... 2.0	80
IPP77N06S2-12	SP000218172	IPP77N06S212AKSA1	PG-TO220-3-1	55	12	2.1 ... 4.0	77
SPB80N06S-08	SP000084808	SPB80N06S08ATMA1	PG-TO263-3-2	55	7.7	2.1 ... 4.0	80
SPP80N06S-08	SP000084810	SPP80N06S08AKSA1	PG-TO220-3-1	55	7.7	2.1 ... 4.0	80

**60V**

IPB180N06S4-H1	SP000415562	IPB180N06S4H1ATMA1	PG-TO263-7-3	60	1.7	2.0 ... 4.0	180
IPB120N06S4-H1	SP000396274	IPB120N06S4H1ATMA1	PG-TO263-3-2	60	2.1	2.0 ... 4.0	120
IPB120N06S4-02	SP000415560	IPB120N06S402ATMA1	PG-TO263-3-2	60	2.4	2.0 ... 4.0	120
IPB120N06S4-03	SP000415558	IPB120N06S403ATMA1	PG-TO263-3-2	60	2.8	2.0 ... 4.0	120
IPB90N06S4L-03	SP000415574	IPB90N06S4L04ATMA1	PG-TO263-3-2	60	3.3	1.2 ... 2.2	90
IPB90N06S4-04	SP000379632	IPB90N06S404ATMA1	PG-TO263-3-2	60	3.7	2.0 ... 4.0	90
IPB80N06S4L-05	SP000415570	IPB80N06S4L05ATMA1	PG-TO263-3-2	60	4.8	1.2 ... 2.2	80
IPB80N06S4-04	SP000415566	IPB80N06S405ATMA1	PG-TO263-3-2	60	5.4	2.0 ... 4.0	80
IPB80N06S4L-07	SP000415572	IPB80N06S4L07ATMA1	PG-TO263-3-2	60	6.4	1.2 ... 2.2	80
IPB80N06S4-07	SP000415568	IPB80N06S407ATMA1	PG-TO263-3-2	60	7.1	2.0 ... 4.0	80
IPB45N06S4L-08	SP000374316	IPB45N06S4L08ATMA1	PG-TO263-3-2	60	8.2	1.2 ... 2.2	45
IPB45N06S4-09	SP000374315	IPB45N06S409ATMA1	PG-TO263-3-2	60	9.1	2.0 ... 4.0	45
IPD100N06S4-03	SP000415576	IPD100N06S403ATMA1	PG-TO252-3-11	60	3.5	2.0 ... 4.0	100
IPD90N06S4L-03	SP000374326	IPD90N06S4L03ATMA1	PG-TO252-3-11	60	3.5	1.2 ... 2.2	90
IPD90N06S4-04	SP000374323	IPD90N06S404ATMA1	PG-TO252-3-11	60	3.8	2.0 ... 4.0	90
IPD90N06S4L-05	SP000415588	IPD90N06S4L05ATMA1	PG-TO252-3-11	60	4.6	1.2 ... 2.2	90
IPD90N06S4-05	SP000481510	IPD90N06S405ATMA1	PG-TO252-3-11	60	5.1	2.0 ... 4.0	90
IPD90N06S4L-06	SP000415594	IPD90N06S4L06ATMA1	PG-TO252-3-11	60	6.1	1.2 ... 2.2	90
IPD90N06S4-07	SP000415586	IPD90N06S407ATMA1	PG-TO252-3-11	60	6.9	2.0 ... 4.0	90
IPD50N06S4L-08	SP000374322	IPD50N06S4L08ATMA1	PG-TO252-3-11	60	7.9	1.2 ... 2.2	50
IPD50N06S4-09	SP000374321	IPD50N06S409ATMA1	PG-TO252-3-11	60	9.0	2.0 ... 4.0	50
IPD50N06S4L-12	SP000476422	IPD50N06S4L12ATMA1	PG-TO252-3-11	60	12	1.2 ... 2.2	50
IPD30N06S4L-23	SP000374320	IPD30N06S4L23ATMA1	PG-TO252-3-11	60	23	1.2 ... 2.2	30
IPD25N06S4L-30	SP000481508	IPD25N06S4L30ATMA1	PG-TO252-3-11	60	30	1.2 ... 2.2	25

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				$m\Omega$	$V$	$A$	

## Automotive N-Channel MOSFETs

### 60V (cont'd)

IPG20N06S4L-11	SP000705550	IPG20N06S4L11ATMA1	PG-TDSON-8-4	60	2 x 11.2	1.2 ... 2.2	20
IPG20N06S4L-14	SP000705540	IPG20N06S4L14ATMA1	PG-TDSON-8-4	60	2 x 13.7	1.2 ... 2.2	20
IPG20N06S4-15	SP000705490	IPG20N06S415ATMA1	PG-TDSON-8-4	60	2 x 15.5	2.0 ... 4.0	20
IPG20N06S4L-26	SP000705588	IPG20N06S4L26ATMA1	PG-TDSON-8-4	60	2 x 26	1.2 ... 2.2	20
IPI120N06S4-H1	SP000415620	IPI120N06S4H1AKSA1	PG-TO262-3-1	60	2.4	2.0 ... 4.0	120
IPI120N06S4-02	SP000415622	IPI120N06S402AKSA1	PG-TO262-3-1	60	2.8	2.0 ... 4.0	120
IPI120N06S4-03	SP000396308	IPI120N06S403AKSA1	PG-TO262-3-1	60	3.1	2.0 ... 4.0	120
IPI90N06S4L-04	SP000415696	IPI90N06S4L04AKSA1	PG-TO262-3-1	60	3.7	1.2 ... 2.2	90
IPI90N06S4-04	SP000379633	IPI90N06S404AKSA1	PG-TO262-3-1	60	4.0	2.0 ... 4.0	90
IPI80N06S4L-05	SP000415692	IPI80N06S4L05AKSA1	PG-TO262-3-1	60	5.2	1.2 ... 2.2	80
IPI80N06S4-05	SP000415632	IPI80N06S405AKSA1	PG-TO262-3-1	60	5.7	2.0 ... 4.0	80
IPI80N06S4L-07	SP000415694	IPI80N06S4L07AKSA1	PG-TO262-3-1	60	6.7	1.2 ... 2.2	80
IPI80N06S4-07	SP000415690	IPI80N06S407AKSA1	PG-TO262-3-1	60	7.4	2.0 ... 4.0	80
IPI45N06S4L-08	SP000374333	IPI45N06S4L08AKSA1	PG-TO262-3-1	60	8.5	1.2 ... 2.2	45
IPI45N06S4-09	SP000374332	IPI45N06S409AKSA1	PG-TO262-3-1	60	9.4	2.0 ... 4.0	45
IPP120N06S4-H1	SP000415698	IPP120N06S4H1AKSA1	PG-TO220-3-1	60	2.4	2.0 ... 4.0	120
IPP120N06S4-02	SP000415700	IPP120N06S402AKSA1	PG-TO220-3-1	60	2.8	2.0 ... 4.0	120
IPP120N06S4-03	SP000396380	IPP120N06S403AKSA1	PG-TO220-3-1	60	3.1	2.0 ... 4.0	120
IPP90N06S4L-04	SP000415712	IPP90N06S4L04AKSA1	PG-TO220-3-1	60	3.7	1.2 ... 2.2	90
IPP90N06S4-04	SP000379634	IPP90N06S404AKSA1	PG-TO220-3-1	60	4.0	2.0 ... 4.0	90
IPP80N06S4L-05	SP000415708	IPP80N06S4L05AKSA1	PG-TO220-3-1	60	5.2	1.2 ... 2.2	80
IPP80N06S4-05	SP000415704	IPP80N06S405AKSA1	PG-TO220-3-1	60	5.7	2.0 ... 4.0	80
IPP80N06S4L-07	SP000415710	IPP80N06S4L07AKSA1	PG-TO220-3-1	60	6.7	1.2 ... 2.2	80
IPP80N06S4-07	SP000415706	IPP80N06S407AKSA1	PG-TO220-3-1	60	7.4	2.0 ... 4.0	80
IPP45N06S4L-08	SP000374340	IPP45N06S4L08AKSA1	PG-TO220-3-1	60	8.5	1.2 ... 2.2	45
IPP45N06S4-09	SP000374339	IPP45N06S409AKSA1	PG-TO220-3-1	60	9.4	2.0 ... 4.0	45

### 75 V

IPB100N08S2L-07	SP000219053	IPB100N08S2L07ATMA1	PG-TO263-3-2	75	6.5	1.2 ... 2.0	100
IPB100N08S2-07	SP000219044	IPB100N08S207ATMA1	PG-TO263-3-2	75	6.8	2.1 ... 4.0	100
IPB80N08S2L-07	SP000219051	IPB80N08S2L07ATMA1	PG-TO263-3-2	75	6.8	1.2 ... 2.0	80
IPB80N08S2-07	SP000219048	IPB80N08S207ATMA1	PG-TO263-3-2	75	7.1	2.1 ... 4.0	80
IPD30N08S2-22	SP000252169	IPD30N08S222ATMA1	PG-TO252-3-11	75	21.5	2.1 ... 4.0	30
IPD30N08S2L-21	SP000252170	IPD30N08S2L21ATMA1	PG-TO252-3-11	75	25	1.2 ... 2.0	30
IPD22N08S2L-50	SP000252163	IPD22N08S2L50ATMA1	PG-TO252-3-11	75	50	1.2 ... 2.0	22
IPI100N08S2-07	SP000219041	IPI100N08S207AKSA1	PG-TO262-3-1	75	7.0	2.1 ... 4.0	100
IPI80N08S2-07	SP000219043	IPI80N08S207AKSA1	PG-TO262-3-1	75	7.0	2.1 ... 4.0	80
IPP100N08S2L-07	SP000219052	IPP100N08S2L07AKSA1	PG-TO220-3-1	75	6.8	1.2 ... 2.0	100
IPP100N08S2-07	SP000219005	IPP100N08S207AKSA1	PG-TO220-3-1	75	7.1	2.1 ... 4.0	100
IPP80N08S2L-07	SP000219050	IPP80N08S2L07AKSA1	PG-TO220-3-1	75	7.1	1.2 ... 2.0	80
IPP80N08S2-07	SP000219040	IPP80N08S207AKSA1	PG-TO220-3-1	75	7.4	2.1 ... 4.0	80

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

## Automotive N-Channel MOSFETs

## 100V

IPB100N10S3-05	SP000261243	IPB100N10S305ATMA1	PG-TO263-3-2	100	4.8	2.0 ... 4.0	100
IPB70N10S3-05	SP000261246	IPB70N10S312ATMA1	PG-TO263-3-2	100	11.3	2.0 ... 4.0	70
IPB70N10S3L-12	SP000379631	IPB70N10S3L12ATMA1	PG-TO263-3-2	100	11.8	2.0 ... 4.0	70
IPB50N10S3L-16	SP000386183	IPB50N10S3L16ATMA1	PG-TO263-3-2	100	15.4	1.2 ... 2.4	50
IPB70N10SL-16	SP000225700	IPB70N10SL16ATMA1	PG-TO263-3-2	100	16	1.2 ... 2.0	70
IPB47N10SL-26	SP000225701	IPB47N10SL26ATMA1	PG-TO263-3-2	100	26	1.2 ... 2.0	47
▼ IPB35N10S3L-26	SP000776044	IPB35N10S3L26ATMA1	PG-TO263-3-2	100	26.3	1.2 ... 2.4	35
IPB47N10S-33	SP000225702	IPB47N10S33ATMA1	PG-TO263-3-2	100	33	2.1 ... 4.0	47
IPD70N10S3-12	SP000427248	IPD70N10S312ATMA1	PG-TO252-3-11	100	11.1	2.0 ... 4.0	70
IPD70N10S3L-12	SP000261250	IPD70N10S3L12ATMA1	PG-TO252-3-11	100	11.5	1.2 ... 2.4	70
IPD50N10S3L-16	SP000386185	IPD50N10S3L16ATMA1	PG-TO252-3-11	100	15	1.2 ... 2.4	50
IPD30N10S3L-34	SP000261248	IPD30N10S3L34ATMA1	PG-TO252-3-11	100	31	1.2 ... 2.4	30
IPD35N10S3L-26	SP000386184	IPD35N10S3L26ATMA1	PG-TO252-3-11	100	26	1.2 ... 2.4	35
IPI100N10S3-05	SP000407128	IPI100N10S305AKSA1	PG-TO262-3-1	100	4.8	2.0 ... 4.0	100
IPI70N10S3-05	SP000407124	IPI70N10S312AKSA1	PG-TO262-3-1	100	11.3	2.0 ... 4.0	70
IPI70N10S3L-12	SP000427250	IPI70N10S3L12AKSA1	PG-TO262-3-1	100	12.1	2.0 ... 4.0	70
IPI50N10S3L-16	SP000407120	IPI50N10S3L16AKSA1	PG-TO262-3-1	100	15.4	1.2 ... 2.4	50
IPI70N10SL-16	SP000225705	IPI70N10SL16AKSA1	PG-TO262-3-1	100	16	1.2 ... 2.0	70
IPI47N10SL-26	SP000225704	IPI47N10SL26AKSA1	PG-TO262-3-1	100	26	1.2 ... 2.0	47
IPI47N10S-33	SP000225703	IPI47N10S33AKSA1	PG-TO262-3-1	100	33	2.1 ... 4.0	47
IPP100N10S3-05	SP000407126	IPP100N10S305AKSA1	PG-TO220-3-1	100	4.8	2.0 ... 4.0	100
IPP70N10S3-12	SP000407122	IPP70N10S312AKSA1	PG-TO220-3-1	100	11.3	2.0 ... 4.0	70
IPP70N10S3L-12	SP000427252	IPP70N10S3L12AKSA1	PG-TO220-3-1	100	12.1	2.0 ... 4.0	70
IPP50N10S3L-16	SP000407118	IPP50N10S3L16AKSA1	PG-TO220-3-1	100	15.4	1.2 ... 2.4	50
IPP70N10SL-16	SP000225708	IPP70N10SL16AKSA1	PG-TO220-3-1	100	16	1.2 ... 2.0	70
IPP47N10SL-26	SP000225707	IPP47N10SL26AKSA1	PG-TO220-3-1	100	26	1.2 ... 2.0	47
IPP47N10S-33	SP000225706	IPP47N10S33AKSA1	PG-TO220-3-1	100	33	2.1 ... 4.0	47

## 600 V

■ IPB60R099CPA	SP000315443	IPB60R099CPAATMA1	PG-TO263-3-2	600	105	2.5 ... 3.5	31
■ IPB60R199CPA	SP000539966	IPB60R199CPAATMA1	PG-TO263-3-2	600	199	2.5 ... 3.5	16
■ IPB60R299CPA	SP000539970	IPB60R299CPAATMA1	PG-TO263-3-2	600	299	2.5 ... 3.5	11
■ IPI60R099CPA	SP000315454	IPI60R099CPAAKSA1	PG-TO262-3-1	600	105	2.5 ... 3.5	31
■ IPP60R099CPA	SP000315418	IPP60R099CPAAKSA1	PG-TO220-3-1	600	105	2.5 ... 3.5	31
■ IPW60R045CPA	SP000539772	IPW60R045CPAFKSA1	PG-TO-247-3-41	600	45	2.5 ... 3.5	60

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				V	m $\Omega$	V	A

## Automotive P-Channel MOSFETs

### 40 V

▼ IPB180P04P4L-02	SP000709460	IPB180P04P4L02ATMA1	PG-TO263-7-3	-40	2.4	-1.2 ... -2.2	-180
▼ IPB180P04P4-03	SP000840202	IPB180P04P403ATMA1	PG-TO263-7-3	-40	2.8	-2.0 ... -4.0	-180
▼ IPB120P04P4L-03	SP000842284	IPB120P04P4L03ATMA1	PG-TO263-3-2	-40	3.1	-1.2 ... -2.2	-120
▼ IPB120P04P4-04	SP000842270	IPB120P04P404ATMA1	PG-TO263-3-2	-40	3.5	-2.0 ... -4.0	-120
▼ IPB80P04P4L-04	SP000840196	IPB80P04P4L04ATMA1	PG-TO263-3-2	-40	4.4	-1.2 ... -2.2	-80
▼ IPB80P04P4-05	SP000652618	IPB80P04P405ATMA1	PG-TO263-3-2	-40	4.9	-2.0 ... -4.0	-80
▼ IPB80P04P4L-06	SP000842046	IPB80P04P4L06ATMA1	PG-TO263-3-2	-40	6.4	-1.2 ... -2.2	-80
▼ IPB80P04P4-07	SP000842038	IPB80P04P407ATMA1	PG-TO263-3-2	-40	7.4	-2.0 ... -4.0	-80
▼ IPB80P04P4L-08	SP000840208	IPB80P04P4L08ATMA1	PG-TO263-3-2	-40	7.9	-1.2 ... -2.2	-80
▼ IPB70P04P4-09	SP000735964	IPB70P04P409ATMA1	PG-TO263-3-2	-40	9.1	-2.0 ... -4.0	-70
▼ IPD90P04P4L-04	SP000840194	IPD90P04P4L04ATMA1	PG-TO252-3-313	-40	4.3	-1.2 ... -2.2	-90
IPD90P04P4-05	SP000671164	IPD90P04P405ATMA1	PG-TO252-3-11	-40	4.7	-2.0 ... -4.0	-90
▼ IPD85P04P4L-06	SP000842056	IPD85P04P4L06ATMA1	PG-TO252-3-313	-40	6.4	-1.2 ... -2.2	-85
▼ IPD85P04P4-07	SP000842066	IPD85P04P407ATMA1	PG-TO252-3-313	-40	7.3	-2.0 ... -4.0	-85
▼ IPD70P04P4L-08	SP000840206	IPD70P04P4L08ATMA1	PG-TO252-3-313	-40	7.8	-1.2 ... -2.2	-70
IPD70P04P4-09	SP000709326	IPD70P04P409ATMA1	PG-TO252-3-11	-40	8.9	-2.0 ... -4.0	-73
▼ IPD50P04P4L-11	SP000671156	IPD50P04P4L11ATMA1	PG-TO252-3-313	-40	10.6	-1.2 ... -2.2	-50
▼ IPD50P04P4-13	SP000840204	IPD50P04P413ATMA1	PG-TO252-3-313	-40	12.6	-2.0 ... -4.0	-50
▼ IPI120P04P4L-03	SP000842296	IPI120P04P4L03AKSA1	PG-TO262-3-1	-40	3.1	-1.2 ... -2.2	-120
▼ IPI120P04P4-04	SP000842274	IPI120P04P404AKSA1	PG-TO262-3-1	-40	3.5	-2.0 ... -4.0	-120
▼ IPI80P04P4L-04	SP000840198	IPB80P04P4L04ATMA1	PG-TO262-3-1	-40	4.4	-1.2 ... -2.2	-80
▼ IPI80P04P4-05	SP000652620	IPI80P04P405AKSA1	PG-TO262-3-1	-40	4.9	-2.0 ... -4.0	-80
▼ IPI80P04P4L-06	SP000842050	IPI80P04P4L06AKSA1	PG-TO262-3-1	-40	6.4	-1.2 ... -2.2	-80
▼ IPI80P04P4-07	SP000842042	IPI80P04P407AKSA1	PG-TO262-3-1	-40	7.4	-2.0 ... -4.0	-80
▼ IPI80P04P4L-08	SP000840210	IPI80P04P4L08AKSA1	PG-TO262-3-1	-40	7.9	-1.2 ... -2.2	-80
▼ IPI70P04P4-09	SP000735974	IPI70P04P409AKSA1	PG-TO262-3-1	-40	9.1	-2.0 ... -4.0	-70
▼ IPP120P04P4L-03	SP000842300	IPP120P04P4L03AKSA1	PG-TO220-3-1	-40	3.1	-1.2 ... -2.2	-120
▼ IPP120P04P4-04	SP000842278	IPP120P04P404AKSA1	PG-TO220-3-1	-40	3.5	-2.0 ... -4.0	-120
▼ IPP80P04P4L-04	SP000840200	IPP80P04P4L04AKSA1	PG-TO220-3-1	-40	4.4	-1.2 ... -2.2	-80
▼ IPP80P04P4-05	SP000652622	IPP80P04P405AKSA1	PG-TO220-3-1	-40	4.9	-2.0 ... -4.0	-80
▼ IPP80P04P4L-06	SP000842052	IPP80P04P4L06AKSA1	PG-TO220-3-1	-40	6.4	-1.2 ... -2.2	-80
▼ IPP80P04P4-07	SP000842044	IPP80P04P407AKSA1	PG-TO220-3-1	-40	7.4	-2.0 ... -4.0	-80
▼ IPP80P04P4L-08	SP000840212	IPP80P04P4L08AKSA1	PG-TO220-3-1	-40	7.9	-1.2 ... -2.2	-80
▼ IPP70P04P4-09	SP000735978	IPP70P04P409AKSA1	PG-TO220-3-1	-40	9.1	-2.0 ... -4.0	-70

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on) max}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

**Automotive P-Channel MOSFETs****30 V**

IPB80P03P4L-04	SP000396284	IPB80P03P4L04ATMA1	PG-TO263-3-2	-30	4.1	-1.0 ... -2.0	-80
IPB80P03P4-05	SP000396282	IPB80P03P405ATMA1	PG-TO263-3-2	-30	4.7	-2.0 ... -4.0	-80
IPB80P03P4L-07	SP000396288	IPB80P03P4L07ATMA1	PG-TO263-3-2	-30	6.9	-1.0 ... -2.0	-80
IPB45P03P4L-11	SP000396276	IPB45P03P4L11ATMA1	PG-TO263-3-2	-30	10.8	-1.0 ... -2.0	-45
IPD90P03P4L-04	SP000396300	IPD90P03P4L04ATMA1	PG-TO252-3-11	-30	4.1	-1.0 ... -2.0	-90
IPD90P03P4-04	SP000396298	IPD90P03P404ATMA1	PG-TO252-3-11	-30	4.5	-2.0 ... -4.0	-90
IPD80P03P4L-07	SP000396296	IPD80P03P4L07ATMA1	PG-TO252-3-11	-30	6.9	-1.0 ... -2.0	-80
IPD50P03P4L-11	SP000396290	IPD50P03P4L11ATMA1	PG-TO252-3-11	-30	10.5	-1.0 ... -2.0	-50
▼ IPI80P03P4-05	SP000396316	IPI80P03P405AKSA1	PG-TO262-3-1	-30	4.7	-2.0 ... -4.0	-80
▼ IPI45P03P4L-11	SP000396310	IPI45P03P4L11AKSA1	PG-TO262-3-1	-30	10.8	-1.2 ... -2.2	-45
IPI80P03P4-04	SP000396318	IPI80P03P4L04AKSA1	PG-TO262-3-1	-30	4.1	-1.0 ... -2.0	-80
IPI80P03P4-07	SP000396320	IPI80P03P4L07AKSA1	PG-TO262-3-1	-30	6.9	-1.0 ... -2.0	-80
IPP80P03P4-04	SP000396390	IPP80P03P4L04AKSA1	PG-TO220-3-1	-30	4.1	-1.0 ... -2.0	-80
▼ IPP80P03P4-05	SP000396388	IPP80P03P405AKSA1	PG-TO220-3-1	-30	4.7	-2.0 ... -4.0	-80
IPP80P03P4-07	SP000396392	IPP80P03P4L07AKSA1	PG-TO220-3-1	-30	6.9	-1.0 ... -2.0	-80
IPP45P03P4L-11	SP000396382	IPP45P03P4L11AKSA1	PG-TO220-3-1	-30	10.8	-1.0 ... -2.0	-45

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

## N-Channel MOSFETs

### 20 V

BSD214SN	SP000440882	BSD214SNL6327HTSA1	SOT363	20	140	0.7 ... 1.2	1.5
▼ BSD214SN H6327	SP000917656	BSD214SNH6327XT	SOT363	20	140	0.7 ... 1.2	1.5
BSD816SN	SP000464868	BSD816SNL6327HTSA1	SOT363	20	160	0.3 ... 0.95	1.4
BSD235N	SP000442458	BSD235NL6327HTSA1	SOT363 dual	20	350	0.7 ... 1.2	0.95
BSD235N	SP000917652	BSD235NH6327XTSA1	SOT363 dual	20	350	0.7 ... 1.2	0.95
BSD840N	SP000464874	BSD840NL6327HTSA1	SOT363 dual	20	400	0.7 ... 1.2	0.95
BSD840N	SP000917654	BSD840NH6327XTSA1	SOT363 dual	20	400	0.7 ... 1.2	0.95
BSC019N02KS G	SP000307376	BSC019N02KSGAUMA1	SuperSO8	20	1.95	0.3 ... 0.75	0.88
BSC026N02KS G	SP000379664	BSC026N02KSGAUMA1	SuperSO8	20	2.6	0.7 ... 1.2	100
BSC046N02KS G	SP000379666	BSC046N02KSGAUMA1	SuperSO8	20	4.6	0.7 ... 1.2	80
BSR202N	SP000257784	BSR202NL6327HTSA1	SC59	20	21	0.7 ... 1.2	3.1
BSR802N	SP000442484	BSR802NL6327HTSA1	SC59	20	23	0.3 ... 0.75	3.7
BSL202SN	SP000257782	BSL202SNL6327HTSA1	TSOP6	20	22	0.7 ... 1.2	7.5
BSL205N	SP000442386	BSL205NL6327HTSA1	TSOP6 dual	20	50	0.6 ... 1.2	2.5
BSL207N	SP000442426	BSL207NL6327HTSA1	TSOP6 dual	20	70	0.7 ... 1.2	2.1
BSL214N	SP000442430	BSL214NL6327HTSA1	TSOP6 dual	20	140	0.7 ... 1.2	1.5
BSL802SN	SP000442478	BSL802SNL6327HTSA1	TSOP6 dual	20	22	0.3 ... 0.75	7.5
BSO330N02K G	SP000380284	BSO330N02KGFUMA1	SO-8	20	30	0.7 ... 1.2	5.4
BSS205N	SP000929180	BSS205NH6327XTSA1	SOT23	20	50	0.7 ... 1.2	2.5
BSS806N	SP000928952	BSS806NH6327XTSA1	SOT23	20	57	0.3 ... 0.75	2.3
BSS214N	SP000928936	BSS214NH6327XTSA1	SOT23	20	140	0.7 ... 1.2	1.5
BSS816NW	SP000464852	BSS816NWL6327HTMA1	SOT323	20	160	0.3 ... 0.75	1.4
▼ BSS816NW H6327	SP000917562	BSS816NWH6327XT	SOT323	20	160	0.3 ... 0.75	1.4
BSS214NW	SP000440880	BSS214NWL6327HTMA1	SOT323	20	140	0.7 ... 1.2	1.5
▼ BSS214NW H6327	SP000917560	BSS214NWH6327XTSA1	SOT323	20	140	0.7 ... 1.2	1.5

### 25 V

▼ BSB008NE2LX	SP000880866	BSB008NE2LXXUMA1	CanPAK™ M-size	25	0.8	1.2 ... 2.0	180
BSB012NE2LX	SP000756344	BSB012NE2LXXUMA1	CanPAK™ M-size	25	1.2	1.2 ... 2.0	180
▼ BSB013NE2LX	SP000756346	BSB013NE2LXIXUMA1	CanPAK™ M-size	25	1.3	1.2 ... 2.0	163
▼ BSC009NE2LS	SP000893362	BSC009NE2LSATMA1	SuperSO8	25	0.9	1.2 ... 2.0	100
BSC010NE2LS	SP000776124	BSC010NE2LSATMA1	SuperSO8	25	1.0	1.2 ... 2.0	100
▼ BSC010NE2LSI	SP000854376	BSC010NE2LSIATMA1	SuperSO8	25	1.05	1.2 ... 2.0	100
▼ BSC014NE2LSI	SP000911336	BSC014NE2LSIATMA1	SuperSO8	25	1.4	1.2 ... 2.0	100
BSC018NE2LS	SP000756336	BSC018NE2LSATMA1	SuperSO8	25	1.8	1.2 ... 2.0	100
▼ BSC018NE2LSI	SP000906030	BSC018NE2LSIATMA1	SuperSO8	25	1.8	1.2 ... 2.0	100
▼ BSC032NE2LS	SP000854378	BSC032NE2LSATMA1	SuperSO8	25	3.2	1.2 ... 2.0	84
BSC050NE2LS	SP000756340	BSC050NE2LSATMA1	SuperSO8	25	5.0	1.2 ... 2.0	58
▼ BSF030NE2LQ	SP000756348	BSF030NE2LQXUMA1	CanPAK™ S-size	25	3.0	1.2 ... 2.0	75
BSZ018NE2LS	SP000756338	BSZ018NE2LSATMA1	S3O8	25	1.8	1.2 ... 2.0	40
▼ BSZ018NE2LSI	SP000906032	BSZ018NE2LSIATMA1	S3O8	25	1.8	1.2 ... 2.0	40
▼ BSZ036NE2LS	SP000854572	BSZ036NE2LSATMA1	S3O8	25	3.6	1.2 ... 2.0	40
▼ BSZ060NE2LS	SP000776122	BSZ060NE2LSATMA1	S3O8	25	6.0	1.2 ... 2.0	40

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A
<b>N-Channel MOSFETs</b>							
<b>30 V</b>							
BSB012N03LX3 G	SP000597846	BSB012N03LX3GXUMA1	CanPAK™ M-size	30	1.2	1.0 ... 2.2	180
BSB017N03LX3 G	SP000604468	BSB017N03LX3GXUMA1	CanPAK™ M-size	30	1.7	1.0 ... 2.2	147
BSC011N03LS	SP000799082	BSC011N03LSATMA1	SuperSO8	30	1.1	1.0 ... 2.2	100
▼ BSC011N03LSI	SP000884574	BSC011N03LSIATMA1	SuperSO8	30	1.1	1.2 ... 2.0	100
BSC014N03LS G	SP000394677	BSC014N03LSGATMA1	SuperSO8	30	1.4	1.2 ... 2.0	100
BSC016N03LS G	SP000237663	BSC016N03LSGATMA1	SuperSO8	30	1.6	1.0 ... 2.2	100
BSC0901NS	SP000800248	BSC0901NSATMA1	SuperSO8	30	1.9	1.0 ... 2.2	100
▼ BSC0901NSI	SP000819818	BSC0901NSIATMA1	SuperSO8	30	2.0	1.0 ... 2.2	100
BSC020N03LS G	SP000237662	BSC020N03LSGATMA1	SuperSO8	30	2.0	1.0 ... 2.2	100
BSC025N03LS G	SP000269781	BSC025N03LSGATMA1	SuperSO8	30	2.5	1.0 ... 2.2	100
BSC0902NS	SP000800246	BSC0902NSATMA1	SuperSO8	30	2.6	1.0 ... 2.2	100
BSC030N03LS G	SP000237661	BSC030N03LSGATMA1	SuperSO8	30	3.0	1.0 ... 2.2	100
BSC034N03LS G	SP000475948	BSC034N03LSGATMA1	SuperSO8	30	3.4	1.0 ... 2.2	100
▼ BSC0904NSI	SP000854384	BSC0904NSIATMA1	SuperSO8	30	3.7	1.0 ... 2.2	78
BSC042N03LS G	SP000302864	BSC042N03LSGATMA1	SuperSO8	30	4.2	1.0 ... 2.2	93
▼ BSC0906NS	SP000893360	BSC0906NSATMA1	SuperSO8	30	4.5	1.0 ... 2.2	63
BSC050N03LS G	SP000269785	BSC050N03LSGATMA1	SuperSO8	30	5.0	1.0 ... 2.2	79
▼ BSC052N03LS	SP000807602	BSC052N03LSATMA1	SuperSO8	30	5.2	1.0 ... 2.2	57
BSC057N03LS G	SP000275113	BSC057N03LSGATMA1	SuperSO8	30	5.7	1.0 ... 2.2	71
BSC072N03LD G	SP000359607	BSC072N03LDGATMA1	SuperSO8 (dual)	30	7.2	1.0 ... 2.2	20
BSC079N03LSC G	SP000527424	BSC079N03LSCGATMA1	SuperSO8	30	7.9	1.0 ... 2.2	50
BSC0908NS	SP000847024	BSC0908NSATMA1	SuperSO8	30	8.0	1.0 ... 2.2	49
BSC080N03LS G	SP000275114	BSC080N03LSGATMA1	SuperSO8	30	8.0	1.0 ... 2.2	52
BSC090N03LS G	SP000275115	BSC090N03LSGATMA1	SuperSO8	30	9.0	1.0 ... 2.2	47
BSC0909NS	SP000832576	BSC0909NSATMA1	SuperSO8	30	9.2	1.0 ... 2.2	44
BSC100N03LS G	SP000275117	BSC100N03LSGATMA1	SuperSO8	30	10	1.0 ... 2.2	44
BSC120N03LS G	SP000302848	BSC120N03LSGATMA1	SuperSO8	30	12	1.0 ... 2.2	39
BSC150N03LD G	SP000359362	BSC150N03LDGATMA1	SuperSO8 (dual)	30	15	1.0 ... 2.2	20
BSD316SN	SP000442462	BSD316SNL6327HTSA1	SOT363	30	160	1.2 ... 2.0	1.4
▼ BSD316SN H6327	SP000917668		SOT363	30	160	1.2 ... 2.0	1.4
BSF024N03LT3 G	SP000616988	BSF024N03LT3GXUMA1	CanPAK™ S-size	30	2.4	1.0 ... 2.2	106
■ BSF045N03LQ3 G	SP000597842	BSF045N03LQ3GXUMA1	CanPAK™ S-size	30	4.5	1.0 ... 2.2	63
BSF050N03LQ3 G	SP000604522	BSF050N03LQ3GXUMA1	CanPAK™ S-size	30	5.0	1.2 ... 2.2	60
BSL302SN	SP000257783	BSL302SNL6327HTSA1	TSOP6	30	25	1.2 ... 2.0	7.1
▼ BSL306N	SP000442404	BSL306N6327HTSA1	TSOP6	30	57	1.2 ... 2.0	2.3
▼ BSR302N	SP000257785	BSR302NL6327HTSA1	SC59	30	23	1.2 ... 2.0	3.7
BSS306N	SP000928940	BSS306NH6327XTSA1	SOT23	30	57	1.2 ... 2.0	2.3
BSS316N	SP000928948	BSS316NH6327XTSA1	SOT23	30	160	1.2 ... 2.0	1.4
BSZ019N03LS	SP000792362	BSZ019N03LSATMA1	S3O8	30	1.9	1.0 ... 2.2	40
▼ BSZ0901NS	SP000854570	BSZ0901NSATMA1	S3O8 (fused leads)	30	2.0	1.0 ... 2.2	40
▼ BSZ0901NSI	SP000853566	BSZ0901NSIATMA1	S3O8 (fused leads)	30	2.1	1.0 ... 2.2	40
▼ BSZ0902NS	SP000854386	BSZ0902NSATMA1	S3O8 (fused leads)	30	2.6	1.0 ... 2.2	40
▼ BSZ0902NSI	SP000854388	BSZ0902NSIATMA1	S3O8 (fused leads)	30	2.8	1.0 ... 2.2	40
BSZ035N03LS G	SP000278809	BSZ035N03LSGATMA1	S3O8	30	3.5	1.0 ... 2.2	40
▼ BSZ0904NSI	SP000854390	BSZ0904NSIATMA1	S3O8 (fused leads)	30	4.0	1.0 ... 2.2	40

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(ON)max}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

## N-Channel MOSFETs

### 30 V (cont')

BSZ050N03LS G	SP000304139	BSZ050N03LSGATMA1	S3O8	30	5.0	1.0 ... 2.2	40
BSZ058N03LS G	SP000307424	BSZ058N03LSGATMA1	S3O8	30	5.8	1.0 ... 2.2	40
▼ BSZ065N03LS	SP000799084	BSZ065N03LSATMA1	S3O8 (fused leads)	30	6.5	1.0 ... 2.2	40
BSZ088N03LS G	SP000304138	BSZ088N03LSGATMA1	S3O8	30	8.8	1.0 ... 2.2	40
BSZ100N03LS G	SP000304135	BSZ100N03LSGATMA1	S3O8	30	10	1.0 ... 2.2	40
▼ BSZ0909NS	SP000832568	BSZ0909NSATMA1	S3O8	30	12.0	1.0 ... 2.2	36
BSZ130N03LS G	SP000278810	BSZ130N03LSGATMA1	S3O8	30	13	1.0 ... 2.2	35
IPB009N03L G	SP000394657	IPB009N03LGATMA1	D <sup>2</sup> PAK 7pin	30	0.95	1.0 ... 2.2	180
IPB034N03L G	SP000304126	IPB034N03LGATMA1	D <sup>2</sup> PAK	30	3.4	1.2 ... 2.0	80
IPB042N03L G	SP000304124	IPB042N03LGATMA1	D <sup>2</sup> PAK	30	4.2	1.2 ... 2.0	70
IPB055N03L G	SP000304110	IPB055N03LGATMA1	D <sup>2</sup> PAK	30	5.5	1.2 ... 2.2	50
IPB065N03L G	SP000254709	IPB065N03LGATMA1	D <sup>2</sup> PAK	30	6.5	1.2 ... 2.2	50
IPB080N03L G	SP000304104	IPB080N03LGATMA1	D <sup>2</sup> PAK	30	8.0	1.2 ... 2.2	50
IPB096N03L G	SP000254711	IPB096N03LGATMA1	D <sup>2</sup> PAK	30	9.6	1.2 ... 2.2	35
IPB147N03L G	SP000254712	IPB147N03LGATMA1	D <sup>2</sup> PAK	30	14.7	1.2 ... 2.0	30
IPD031N03L G	SP000680554	IPD031N03LGATMA1	DKPAK	30	3.1	1.0 ... 2.2	90
IPD040N03L G	SP000680628	IPD040N03LGATMA1	DKPAK	30	4.0	1.0 ... 2.0	90
IPD050N03L G	SP000680630	IPD050N03LGATMA1	DKPAK	30	5.0	1.0 ... 2.0	50
IPD060N03L G	SP000680632	IPD060N03LGATMA1	DKPAK	30	6.0	1.0 ... 2.2	50
IPD075N03L G	SP000680634	IPD075N03LGATMA1	DKPAK	30	7.5	1.0 ... 2.2	50
IPD090N03L G	SP000680636	IPD090N03LGATMA1	DKPAK	30	9.0	1.0 ... 2.2	40
IPD105N03L G	SP000254717	IPD105N03LGBTMA1	DKPAK	30	10.5	1.0 ... 2.2	35
IPD105N03L G	SP000796910	IPD105N03LGATMA1	DKPAK	30	10.5	1.0 ... 2.2	35
IPD135N03L G	SP000236951	IPD135N03LGBTMA1	DKPAK	30	13.5	1.0 ... 2.2	30
IPD135N03L G	SP000796912	IPD135N03LGATMA1	DKPAK	30	13.5	1.0 ... 2.2	30
IPP034N03L G	SP000680772	IPP034N03LGXKSA1	TO-220	30	3.4	1.0 ... 2.2	80
IPP042N03L G	SP000680792	IPP042N03LGXKSA1	TO-220	30	4.2	1.2 ... 2.2	80
IPP055N03L G	SP000680806	IPP055N03LGXKSA1	TO-220	30	5.5	1.2 ... 2.2	50
IPP065N03L G	SP000680818	IPP065N03LGXKSA1	TO-220	30	6.5	1.0 ... 2.2	50
■ IPP080N03L G	SP000264166	IPP080N03LGHKSA1	TO-220	30	8.0	1.2 ... 2.2	50
■ IPP096N03L G	SP000254737	IPP096N03LGHKSA1	TO-220	30	9.6	1.0 ... 2.2	35
■ IPP114N03L G	SP000264168	IPP114N03LGHKSA1	TO-220	30	11.4	1.0 ... 2.2	30
IPP147N03L G	SP000266315	IPP147N03LGHKSA1	TO-220	30	14.7	1.0 ... 2.2	20
▼ IPS040N03L G	SP000810846	IPS040N03LGAKMA1	IPAK SL	30	4.0	1.0 ... 2.2	90
▼ IPS050N03L G	SP000810848	IPS050N03LGAKMA1	IPAK SL	30	5.0	1.0 ... 2.2	50
IPS060N03L G	SP000705724	IPS060N03LGAKMA1	IPAK SL	30	6.0	1.0 ... 2.2	50
IPS075N03L G	SP000705726	IPS075N03LGAKMA1	IPAK SL	30	7.5	1.0 ... 2.2	50
▼ IPS090N03L G	SP000788216	IPS090N03LGAKMA1	IPAK SL	30	9.0	1.0 ... 2.2	40
▼ IPS105N03L G	SP000788218	IPS105N03LGAKMA1	IPAK SL	30	10.5	1.0 ... 2.2	35
▼ IPS135N03L G	SP000788220	IPS135N03LGAKMA1	IPAK SL	30	13.5	1.0 ... 2.2	30

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on) max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

## N-Channel MOSFETs

Mobile Series, Gate Charge @ 4.5 V  
30 V

BSC014N03MS G	SP000394681	BSC014N03MSGATMA1	SuperSO8	30	1.4	1.0 ... 2.0	100
BSC016N03MS G	SP000311502	BSC016N03MSGATMA1	SuperSO8	30	1.6	1.0 ... 2.0	100
BSC020N03MS G	SP000311503	BSC020N03MSGATMA1	SuperSO8	30	2.0	1.0 ... 2.0	100
BSC025N03MS G	SP000311505	BSC025N03MSGATMA1	SuperSO8	30	2.5	1.0 ... 2.0	100
BSC030N03MS G	SP000311506	BSC030N03MSGATMA1	SuperSO8	30	3.0	1.0 ... 2.0	100
BSC037N03MSC G	SP000527434	BSC037N03MSCGATMA1	SuperSO8	30	3.7	1.0 ... 2.2	100
BSC042N03MS G	SP000311512	BSC042N03MSGATMA1	SuperSO8	30	4.2	1.0 ... 2.0	93
BSC043N03MSC G	SP000509600	BSC043N03MSCGATMA1	SuperSO8	30	4.3	1.0 ... 2.2	87
BSC049N03MSC G	SP000509598	BSC049N03MSCGATMA1	SuperSO8	30	4.9	1.0 ... 2.2	77
BSC050N03MS G	SP000311507	BSC050N03MSGATMA1	SuperSO8	30	5.0	1.0 ... 2.0	80
BSC057N03MS G	SP000311513	BSC057N03MSGATMA1	SuperSO8	30	5.7	1.0 ... 2.0	71
BSC080N03MS G	SP000311514	BSC080N03MSGATMA1	SuperSO8	30	8.0	1.0 ... 2.0	53
BSC090N03MS G	SP000313120	BSC090N03MSGATMA1	SuperSO8	30	9.0	1.0 ... 2.0	48
BSC091N03MSC G	SP000527416	BSC091N03MSCGATMA1	SuperSO8	30	9.1	1.0 ... 2.2	44
BSC100N03MS G	SP000311515	BSC100N03MSGATMA1	SuperSO8	30	10	1.0 ... 2.0	44
BSC120N03MS G	SP000311516	BSC120N03MSGATMA1	SuperSO8	30	12	1.0 ... 2.0	39
BSO033N03MS G	SP000446072	BSO033N03MSGXUMA1	SO-8	30	3.3	1.0 ... 2.0	17
BSO038N03MSC G	SP000527604	BSO038N03MSCGXUMA1	SO-8	30	3.8	1.0 ... 2.0	21
BSO040N03MS G	SP000446070	BSO040N03MSGXUMA1	SO-8	30	4.0	1.0 ... 2.0	16
BSO051N03MS G	SP000446068	BSO051N03MSGXUMA1	SO-8	30	5.1	1.0 ... 2.0	14
BSO065N03MS G	SP000446066	BSO065N03MSGXUMA1	SO-8	30	6.5	1.0 ... 2.0	13
BSO083N03MS G	SP000446064	BSO083N03MSGXUMA1	SO-8	30	8.3	1.0 ... 2.0	11
BSO108N03MSC G	SP000527616	BSO108N03MSCGXUMA1	SO-8	30	10.8	1.0 ... 2.0	12.2
BSO110N03MS G	SP000446062	BSO110N03MSGXUMA1	SO-8	30	11	1.0 ... 2.0	12.1
BSO130N03MS G	SP000446050	BSO130N03MSGXUMA1	SO-8	30	13	1.0 ... 2.0	9.0
BSO150N03MD G	SP000447476	BSO150N03MDGXUMA1	SO-8 (dual)	30	15	1.2 ... 2.0	9.3
BSO220N03MD G	SP000447478	BSO220N03MDGXUMA1	SO-8 (dual)	30	22	1.0 ... 2.1	7.0
BSO220N03MS G	SP000446060	BSO220N03MSGXUMA1	SO-8	30	22	1.0 ... 2.1	8.6
BSZ035N03MS G	SP000311511	BSZ035N03MSGATMA1	S3O8	30	3.5	1.0 ... 2.0	40
BSZ050N03MS G	SP000311518	BSZ050N03MSGATMA1	S3O8	30	5.0	1.0 ... 2.0	40
BSZ058N03MS G	SP000311508	BSZ058N03MSGATMA1	S3O8	30	5.8	1.0 ... 2.0	40
BSZ088N03MS G	SP000311509	BSZ088N03MSGATMA1	S3O8	30	8.8	1.0 ... 2.0	40
BSZ100N03MS G	SP000311510	BSZ100N03MSGATMA1	S3O8	30	10	1.0 ... 2.0	40
BSZ130N03MS G	SP000313122	BSZ130N03MSGATMA1	S3O8	30	13	1.0 ... 2.0	35

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				$m\Omega$	$V$	$A$	

## N-Channel MOSFETs

### 40 V

BSB014N04LX3 G	SP000597850	BSB014N04LX3GXUMA1	CanPAK™ M-size	40	1.4	2.0 ... 4.0	180
BSB015N04NX3 G	SP000597852	BSB015N04NX3GXUMA1	CanPAK™ M-size	40	1.5	2.0 ... 4.0	180
BSC016N04LS G	SP000394801	BSC016N04LSGATMA1	SuperSO8	40	1.6	1.2 ... 2.0	100
BSC017N04NS G	SP000394684	BSC017N04NSGATMA1	SuperSO8	40	1.7	2.0 ... 4.0	100
BSC018N04LS G	SP000388293	BSC018N04LSGATMA1	SuperSO8	40	1.8	1.2 ... 2.0	100
BSC019N04NS G	SP000388299	BSC019N04NSGATMA1	SuperSO8	40	1.9	2.0 ... 4.0	100
BSC027N04LS G	SP000354810	BSC027N04LSGATMA1	SuperSO8	40	2.7	1.2 ... 2.0	100
BSC030N04NS G	SP000354811	BSC030N04NSGATMA1	SuperSO8	40	3.0	2.0 ... 4.0	100
BSC035N04LS G	SP000391503	BSC035N04LSGATMA1	SuperSO8	40	3.5	1.2 ... 2.0	100
BSC050N04LS G	SP000354806		SuperSO8	40	5.0	1.2 ... 2.0	85
BSC054N04NS G	SP000354808	BSC054N04NSGATMA1	SuperSO8	40	5.4	2.0 ... 4.0	81
BSC059N04LS G	SP000391499	BSC059N04LSGATMA1	SuperSO8	40	5.9	1.2 ... 2.0	73
BSC093N04LS G	SP000387929	BSC093N04LSGATMA1	SuperSO8	40	9.3	1.2 ... 2.0	49
BSZ040N04LS G	SP000388295	BSZ040N04LSGATMA1	S3O8	40	4.0	1.2 ... 2.0	40
BSZ042N04NS G	SP000388300	BSZ042N04NSGATMA1	S3O8	40	4.2	2.0 ... 4.0	40
BSZ097N04LS G	SP000388296	BSZ097N04LSGATMA1	S3O8	40	9.7	1.2 ... 2.0	40
BSZ105N04NS G	SP000388301	BSZ105N04NSGATMA1	S3O8	40	10.5	2.0 ... 4.0	40
BSZ165N04NS G	SP000391523	BSZ165N04NSGATMA1	S3O8	40	16.5	2.0 ... 4.0	31
IPB011N04L G	SP000391498	IPB011N04LGATMA1	D²PAK 7pin	40	1.1	1.2 ... 2.0	180
IPB011N04N G	SP000388298	IPB011N04NGATMA1	D²PAK 7pin	40	1.1	2.0 ... 4.0	180
IPB015N04L G	SP000387948	IPB015N04LGATMA1	D²PAK 7pin	40	1.5	1.2 ... 2.0	120
IPB015N04N G	SP000391522	IPB015N04NGATMA1	D²PAK	40	1.5	2.0 ... 4.0	120
IPB020N04N G	SP000359157	IPB020N04NGATMA1	D²PAK 7pin	40	2.0	2.0 ... 4.0	140
IPB022N04L G	SP000391497	IPB022N04LGATMA1	D²PAK	40	2.2	1.2 ... 2.0	90
IPB023N04N G	SP000391519	IPB023N04NGATMA1	D²PAK	40	2.3	2.0 ... 4.0	90
IPB039N04L G	SP000391495	IPB039N04LGATMA1	D²PAK	40	3.9	1.2 ... 2.0	80
IPB041N04N G	SP000391511	IPB041N04NGATMA1	D²PAK	40	4.1	2.0 ... 4.0	80
IPB052N04N G	SP000391505	IPB041N04NGATMA1	D²PAK	40	5.2	2.0 ... 4.0	70
IPB075N04L G	SP000387943	IPB075N04LGATMA1	D²PAK	40	7.5	1.2 ... 2.0	50
IPB093N04L G	SP000387937	IPB093N04LGATMA1	D²PAK	40	9.3	1.2 ... 2.0	50
IPD036N04L G	SP000387945	IPD036N04LGBTMA1	DPAK	40	3.6	1.0 ... 2.0	90
IPD038N04N G	SP000391507	IPD038N04NGBTMA1	DPAK	40	3.8	2.0 ... 4.0	90
IPD088N04L G	SP000354798	IPD088N04LGBTMA1	DPAK	40	8.8	1.0 ... 2.0	50
IPD105N04L G	SP000354796	IPD105N04LGBTMA1	DPAK	40	10.5	1.0 ... 2.0	40
IPD160N04L G	SP000387933	IPD160N04LGBTMA1	DPAK	40	16	1.0 ... 2.0	30
IPD170N04N G	SP000388297	IPD170N04NGBTMA1	DPAK	40	17	2.0 ... 4.0	30
IPP015N04N G	SP000680760	IPP015N04NGXKSA1	TO-220	40	1.5	2.0 ... 4.0	120
IPP023N04N G	SP000680762	IPP023N04NGXKSA1	TO-220	40	2.3	2.0 ... 4.0	90
IPP039N04L G	SP000680782	IPP039N04LGXKSA1	TO-220	40	3.9	1.2 ... 2.0	80
IPP041N04N G	SP000680790	IPP041N04NGXKSA1	TO-220	40	4.1	2.0 ... 4.0	80
IPP048N04N G	SP000648308	IPP048N04NGXKSA1	TO-220	40	4.8	2.0 ... 4.0	70
IPP065N04N G	SP000648268	IPP065N04NGXKSA1	TO-220	40	6.5	2.0 ... 4.0	50

### 55V

BSS670S2L	SP000928950	BSS670S2LH6327XTSA1	SOT23	55	650	1.2 ... 2.0	0.54
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SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

## N-Channel MOSFETs

## 60 V

▼ BSB028N06NN3 G	SP000605956	BSB028N06NN3GXUMA1	CanPAK™ M-size	60	2.8	2.0 ... 4.0	90
▼ BSF077N06NT3 G	SP000605968	BSF077N06NT3GXUMA1	CanPAK™ S-size	60	7.7	2.0 ... 4.0	56
BSC028N06LS3 G	SP000453652	BSC028N06LS3GATMA1	SuperSO8	60	2.8	1.2 ... 2.2	100
▼ BSC028N06NS G	SP000917416	BSC028N06NSATMA1	SuperSO8	60	2.8	2.8	100
BSC031N06NS3 G	SP000451482	BSC031N06NS3GATMA1	SuperSO8	60	3.1	2.0 ... 4.0	100
BSC067N06LS3 G	SP000451084	BSC067N06LS3GATMA1	SuperSO8	60	6.7	1.2 ... 2.2	50
BSC076N06NS3 G	SP000453656	BSC076N06NS3GATMA1	SuperSO8	60	7.6	2.0 ... 4.0	50
BSC100N06LS3 G	SP000453664	BSC080P03LPGAUMA1	SuperSO8	60	10	1.2 ... 2.2	50
BSC110N06NS3 G	SP000453668	BSC110N06NS3GATMA1	SuperSO8	60	11	2.0 ... 4.0	50
▼ BSZ042N06NS G	SP000917418	BSZ042N06NSATMA1	S3O8	60	4.2	2.8	40
BSZ067N06LS3 G	SP000451080	BSZ067N06LS3GATMA1	S3O8	60	6.7	1.2 ... 2.2	20
BSZ076N06LS3 G	SP000454420	BSZ076N06NS3GATMA1	S3O8	60	7.6	2.0 ... 4.0	20
BSZ100N06LS3 G	SP000453672	BSZ100N06LS3GATMA1	S3O8	60	10	1.7 ... 2.2	20
BSZ110N06NS3 G	SP000453676	BSZ110N06NS3GATMA1	S3O8	60	11	2.0 ... 4.0	20
BSL806N	SP000464844	BSL806NL6327HTSA1	TSOP6 dual	60	57	0.3 ... 0.75	2.3
IPA032N06N3 G	SP000453608	IPA032N06N3GXKSA1	TO-220 FullPAK	60	3.2	2.0 ... 4.0	84
IPA057N06N3 G	SP000457582	IPA057N06N3GXKSA1	TO-220 FullPAK	60	5.7	2.0 ... 4.0	60
IPA093N06N3 G	SP000451088	IPA093N06N3GXKSA1	TO-220 FullPAK	60	9.3	2.0 ... 4.0	43
IPB016N06L3 G	SP000453040	IPB016N06L3GATMA1	D <sup>2</sup> PAK 7pin	60	1.6	1.2 ... 2.2	180
IPB017N06N3 G	SP000434404	IPB017N06N3GATMA1	D <sup>2</sup> PAK 7pin	60	1.7	2.0 ... 4.0	180
IPB023N06N3 G	SP000453048	IPB023N06N3GATMA1	D <sup>2</sup> PAK 7pin	60	2.3	2.0 ... 4.0	140
IPB034N06L3 G	SP000398062	IPB034N06L3GATMA1	D <sup>2</sup> PAK 7pin	60	3.4	1.2 ... 2.2	90
IPB034N06N3 G	SP000397990	IPB034N06N3GATMA1	D <sup>2</sup> PAK 7pin	60	3.4	2.0 ... 4.0	100
IPB019N06L3 G	SP000453020	IPB019N06L3GATMA1	D <sup>2</sup> PAK	60	1.9	1.2 ... 2.2	120
IPB021N06N3 G	SP000452248	IPB021N06N3GATMA1	D <sup>2</sup> PAK	60	2.1	2.0 ... 4.0	120
IPB029N06N3 G	SP000453052	IPB029N06N3GATMA1	D <sup>2</sup> PAK	60	2.9	2.0 ... 4.0	120
▼ IPB029N06N3 G	SP000939334	IPB029N06N3E8187GATMA1	D <sup>2</sup> PAK	60	2.9	2.0 ... 4.0	120
IPB034N06L3 G	SP000398062	IPB034N06L3GATMA1	D <sup>2</sup> PAK	60	3.4	1.2 ... 2.2	90
IPB037N06N3 G	SP000397986	IPB037N06N3GATMA1	D <sup>2</sup> PAK	60	3.7	2.0 ... 4.0	90
IPB048N06L G	SP000204181	IPB048N06L3GATMA1	D <sup>2</sup> PAK	60	4.4	1.2 ... 2.0	100
IPB049N06L3 G	SP000453056	IPB049N06L3GATMA1	D <sup>2</sup> PAK	60	4.9	1.2 ... 2.2	80
IPB050N06N G	SP000204170	IPB050N06NGATMA1	D <sup>2</sup> PAK	60	4.7	2.1 ... 4.0	100
IPB054N06N3 G	SP000446782	IPB054N06N3GATMA1	D <sup>2</sup> PAK	60	5.4	2.1 ... 4.0	80
IPB081N06L3 G	SP000398076	IPB081N06L3GATMA1	D <sup>2</sup> PAK	60	8.1	1.2 ... 2.2	50
IPB090N06N3 G	SP000398042	IPB090N06N3GATMA1	D <sup>2</sup> PAK	60	9.0	2.1 ... 4.0	50
IPB230N06L3 G	SP000457584	IPB230N06L3GATMA1	D <sup>2</sup> PAK	60	23	1.2 ... 2.2	30
IPB260N06N3 G	SP000453630	IPB260N06N3GATMA1	D <sup>2</sup> PAK	60	26	2.0 ... 4.0	27
IPD031N06L3 G	SP000451076	IPD031N06L3GATMA1	DPAK	60	3.1	1.2 ... 2.2	100
IPD034N06N3 G	SP000451070	IPD034N06N3GATMA1	DPAK	60	3.4	2.0 ... 4.0	100
IPD035N06L3 G	SP000398066	IPD035N06L3GATMA1	DPAK	60	3.5	1.2 ... 2.2	90
IPD038N06N3 G	SP000397994	IPD038N06N3GATMA1	DPAK	60	3.8	2.0 ... 4.0	90
IPD048N06L3 G	SP000453334	IPD048N06L3GBTMA1	DPAK	60	4.8	1.2 ... 2.2	90
IPD053N06N3 G	SP000453318	IPD053N06N3GBTMA1	DPAK	60	5.3	2.0 ... 4.0	90
IPD079N06L3 G	SP000453626	IPD079N06L3GBTMA1	DPAK	60	7.9	1.2 ... 2.2	50
IPD088N06N3 G	SP000453620	IPD088N06N3GBTMA1	DPAK	60	8.8	2.0 ... 4.0	50
IPD127N06L G	SP000443740	IPD127N06LGBTMA1	DPAK	60	12.7	1.2 ... 2.0	50
IPD144N06N G	SP000443738	IPD144N06NGBTMA1	DPAK	60	14.4	2.1 ... 4.0	200
IPD220N06L3 G	SP000453644	IPD220N06L3GBTMA1	DPAK	60	22	1.2 ... 2.2	30

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				V	m $\Omega$	V	A

## N-Channel MOSFETs

### 60V

(cont'd)

IPD230N06N G	SP000450200	IPD230N06NGBTMA1	DKPAK	60	23	2.1 ... 4.0	120
IPD250N06N3 G	SP000453634	IPD250N06N3GBTMA1	DKPAK	60	25	2.0 ... 4.0	28
IPD350N06L G	SP000443746	IPD350N06LGBTMA1	DKPAK	60	35	1.2 ... 2.0	29
IPD400N06L G	SP000443744	IPD400N06NGBTMA1	DKPAK	60	40	2.0 ... 4.0	27
IPD640N06L G	SP000443766	IPD640N06LGBTMA1	DKPAK	60	64	1.2 ... 2.0	18
IPD800N06N G	SP000443764	IPD800N06NGBTMA1	DKPAK	60	80	2.1 ... 4.0	64
IPI024N06N3 G	SP000680644	IPI024N06N3GXKSA1	I <sup>2</sup> PAK	60	2.1	2.0 ... 4.0	120
IPI032N06N3 G	SP000680650	IPI032N06N3GAKSA1	I <sup>2</sup> PAK	60	2.9	2.0 ... 4.0	120
■ IPI037N06L3 G	SP000397910	IPI037N06L3GHKSA1	I <sup>2</sup> PAK	60	3.7	1.2 ... 2.2	90
IPI040N06N3 G	SP000680656	IPI040N06N3GXKSA1	I <sup>2</sup> PAK	60	4.0	2.0 ... 4.0	90
▼ IPP020N06N3 G	SP000917406	IPP020N06NAKSA1	TO-220	60	2.0	2.8	120
IPP024N06N3 G	SP000680764	IPP024N06N3GXKSA1	TO-220	60	2.4	2.0 ... 4.0	120
▼ IPP029N06N G	SP000917404	IPP029N06NAKSA1	TO-220	60	2.9	2.8	100
IPP032N06N3 G	SP000680770	IPP032N06N3GXKSA1	TO-220	60	3.2	2.0 ... 4.0	120
IPP037N06L3 G	SP000680774	IPP037N06L3GXKSA1	TO-220	60	3.7	1.2 ... 2.2	90
IPP040N06N3 G	SP000680788	IPP040N06N3GXKSA1	TO-220	60	4.0	2.0 ... 4.0	90
IPP052N06L3 G	SP000680802	IPP052N06L3GXKSA1	TO-220	60	4.9	1.2 ... 2.0	80
IPP057N06N3 G	SP000680808	IPP057N06N3GXKSA1	TO-220	60	5.7	2.0 ... 4.0	80
IPP065N06L G	SP000204182	IPP065N06LGAKSA1	TO-220	60	6.5	1.2 ... 2.0	80
IPP084N06L3 G	SP000680838	IPP084N06L3GXKSA1	TO-220	60	8.1	1.2 ... 2.0	50
IPP085N06L G	SP000204188	IPP085N06LGAKSA1	TO-220	60	8.5	1.2 ... 2.0	80
IPP093N06N3 G	SP000680852	IPP093N06N3GXKSA1	TO-220	60	9.0	2.0 ... 4.0	50
IPP120N06N G	SP000204175	IPP120N06NGAKSA1	TO-220	60	12	1.2 ... 2.0	75
IPP230N06L3 G	SP000680886	IPP230N06L3GXKSA1	TO-220	60	23	1.2 ... 2.2	30
IPP260N06N3 G	SP000680918	IPP260N06N3GXKSA1	TO-220	60	26	2.0 ... 4.0	27
BSO615N G	SP000216316	BSO615NGHUMA1	SO-8 dual	60	150	1.2 ... 2.0	2.60
BSP295	SP000089210	BSP295L6327HTSA1	SOT223	60	300	0.8 ... 1.8	1.80
BSP318S	SP000235371	BSP318SL6327HTSA1	SOT223	60	90	1.2 ... 2.0	2.60
BSP320S	SP000235375	BSP320SL6327HTSA1	SOT223	60	120	2.1 ... 4.0	2.90
BSP320S L6433	SP000235376	BSP320SL6433HTMA1	SOT223	60	120	2.1 ... 4.0	2.90
2N7002	SP000929182	2N7002H6327XTSA2	SOT23	60	3000	1.5 ... 2.5	0.20
BSS138N	SP000919330	BSS138NH6327XTSA2	SOT23	60	3500	0.6 ... 1.4	0.23
BSS138N L6433	SP000924060	BSS138NH6433XTMA1	SOT23	60	3500	0.6 ... 1.4	0.23
BSS7728N	SP000702640	BSS7728NH6327XTSA1	SOT23	60	5000	1.3 ... 2.3	0.20
BSS7728N	SP000929184	BSS7728NH6327XTSA2	SOT23	60	5000	1.3 ... 2.3	0.20
SN7002N	SP000702638	SN7002NH6327XTSA1	SOT23	60	5000	0.8 ... 1.8	0.20
SN7002N	SP000929188	SN7002NH6327XTSA2	SOT23	60	5000	0.8 ... 1.8	0.20
▼ SN7002N H6433	SP000924072	SN7002NH6433XTMA1	SOT23	60	5000	0.8 ... 1.8	0.20
BSS138W	SP000245411	BSS138WL6327HTMA1	SOT323	60	3500	0.6 ... 1.4	0.28
BSS138W	SP000924068	BSS138WH6327XTSA1	SOT323	60	3500	0.6 ... 1.4	0.28
BSS138W H6433	SP000917558	BSS138WH6433XTMA1	SOT323	60	3500	0.6 ... 1.4	0.28
BSS138W L6433	SP000245412	BSS138WL6433HTMA1	SOT323	60	3500	0.6 ... 1.4	0.28
SN7002W	SP000917572	SN7002WH6327XTSA1	SOT323	60	5000	0.8 ... 1.8	0.23
SN7002W	SP000245414	SN7002WL6327HTMA1	SOT323	60	5000	0.8 ... 1.8	0.23
SN7002W L6433	SP000245413	SN7002WL6433HTMA1	SOT323	60	5000	0.8 ... 1.8	0.23
▼ SN7002W H6433	SP000917588		SOT323	60	5000	0.8 ... 1.8	0.23
2N7002DW	SP000408436	2N7002DWL6327HTSA1	SOT363 dual	60	3000	1.5 ... 2.5	0.30
2N7002DW	SP000917596	2N7002DWH6327XTSA1	SOT363 dual	60	3000	1.5 ... 2.5	0.30

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

## N-Channel MOSFETs

## 75V

▼ BSC036NE7NS3 G	SP000907920	BSC036NE7NS3GATMA1	SuperSO8	75	3.6	2.3 ... 3.8	100
BSC042NE7NS3 G	SP000657440	BSC042NE7NS3GATMA1	SuperSO8	75	4.2	2.3 ... 3.8	100
IPB020NE7N3 G	SP000676950	IPB020NE7N3GATMA1	D <sup>2</sup> PAK	75	2.0	2.3 ... 3.8	120
IPB031NE7N3 G	SP000641730	IPB031NE7N3GATMA1	D <sup>2</sup> PAK	75	3.1	2.3 ... 3.8	100
IPB049NE7N3 G	SP000641752	IPB049NE7N3GATMA1	D <sup>2</sup> PAK	75	4.9	2.3 ... 3.8	80
IPI023NE7N3 G	SP000641732	IPI023NE7N3GAKSA1	I <sup>2</sup> PAK	75	2.3	2.3 ... 3.8	120
IPI034NE7N3 G	SP000641734	IPI034NE7N3GAKSA1	I <sup>2</sup> PAK	75	3.4	2.3 ... 3.8	100
IPI052NE7N3 G	SP000657442	IPI052NE7N3GAKSA1	I <sup>2</sup> PAK	75	5.2	2.3 ... 3.8	80
IPP023NE7N3 G	SP000641722	IPP023NE7N3GXKSA1	TO-220	75	2.3	2.3 ... 3.8	120
IPP034NE7N3 G	SP000843890	IPP034NE7N3GHKSA1	TO-220	75	3.4	2.3 ... 3.8	100
IPP052NE7N3 G	SP000846650	IPP052NE7N3GHKSA1	TO-220	75	5.2	2.3 ... 3.8	80
IPP062NE7N3 G	SP000846652	IPP062NE7N3GHKSA1	TO-220	75	6.2	2.3 ... 3.8	80
IPP062NE7N3 G	SP000819768	IPP062NE7N3GXKSA1	TO-220	75	6.2	2.3 ... 3.8	80

## 80 V

▼ BSB044N08NN3 G	SP000604542	BSB044N08NN3GXUMA1	CanPAK™ M-size	80	4.4	2.0 ... 4.0	90
BSC047N08NS3 G	SP000436372	BSC047N08NS3GATMA1	SuperSO8	80	4.7	2.0 ... 3.5	100
BSC057N08NS3 G	SP000447542	BSC057N08NS3GATMA1	SuperSO8	80	5.7	2.0 ... 3.5	100
BSC123N08NS3 G	SP000443916	BSC123N08NS3GATMA1	SuperSO8	80	12.3	2.0 ... 3.5	55
BSC340N08NS3 G	SP000447534	BSC340N08NS3GATMA1	SuperSO8	80	34	2.0 ... 3.5	23
BSZ123N08NS3 G	SP000443632	BSZ123N08NS3GATMA1	S3O8	80	12.3	2.0 ... 3.5	40
BSZ340N08NS3 G	SP000443634	BSZ340N08NS3GATMA1	S3O8	80	34	2.0 ... 3.5	23
IPA028N08N3 G	SP000446770	IPA028N08N3GXKSA1	TO-220 FullPAK	80	2.8	2.0 ... 3.5	100
IPA037N08N3 G	SP000446772	IPA037N08N3GXKSA1	TO-220 FullPAK	80	3.7	2.0 ... 3.5	75
IPA057N08N3 G	SP000454442	IPA057N08N3GXKSA1	TO-220 FullPAK	80	5.7	2.0 ... 3.5	60
IPA100N08N3 G	SP000473900	IPA100N08N3GXKSA1	TO-220 FullPAK	80	10	2.0 ... 3.5	40
IPB019N08N3 G	SP000444110	IPB019N08N3GATMA1	D <sup>2</sup> PAK 7pin	80	1.9	2.0 ... 3.5	180
IPB025N08N3 G	SP000311980	IPB025N08N3GATMA1	D <sup>2</sup> PAK	80	2.5	2.0 ... 3.5	120
IPB030N08N3 G	SP000444100	IPB030N08N3GATMA1	D <sup>2</sup> PAK 7pin	80	3.0	2.0 ... 3.5	160
IPB035N08N3 G	SP000457588	IPB035N08N3GATMA1	D <sup>2</sup> PAK	80	3.5	2.0 ... 3.5	100
IPB054N08N3 G	SP000395166	IPB054N08N3GATMA1	D <sup>2</sup> PAK	80	5.4	2.0 ... 3.5	80
IPB067N08N3 G	SP000443636	IPB067N08N3GATMA1	D <sup>2</sup> PAK	80	6.7	2.0 ... 3.5	80
IPB097N08N3 G	SP000474200	IPB097N08N3GATMA1	D <sup>2</sup> PAK	80	9.7	2.0 ... 3.5	70
IPB136N08N3 G	SP000447512	IPB136N08N3GATMA1	D <sup>2</sup> PAK	80	13.6	2.0 ... 3.5	45
IPD053N08N3 G	SP000395183	IPD053N08N3GBTMA1	DPAK	80	5.3	2.0 ... 3.5	90
IPD096N08N3 G	SP000474196	IPD096N08N3GBTMA1	DPAK	80	9.6	2.0 ... 3.5	73
IPD135N08N3 G	SP000454266	IPD135N08N3GBTMA1	DPAK	80	13.5	2.0 ... 3.5	45
■ IPI028N08N3 G	SP000395160	IPI028N08N3GHKSA1	I <sup>2</sup> PAK	80	2.8	2.0 ... 3.5	100
IPI037N08N3 G	SP000680654	IPI037N08N3GXKSA1	I <sup>2</sup> PAK	80	3.7	2.0 ... 3.5	100
IPI057N08N3 G	SP000680662	IPI057N08N3GXKSA1	I <sup>2</sup> PAK	80	5.7	2.0 ... 3.5	90
▼ IPI070N08N3 G	SP000680672	IPI070N08N3GXKSA1	I <sup>2</sup> PAK	80	7.0	2.0 ... 3.5	80
IPI100N08N3 G	SP000680710	IPI100N08N3GXKSA1	I <sup>2</sup> PAK	80	9.7	2.0 ... 3.5	70
IPI139N08N3 G	SP000680716	IPI139N08N3GXKSA1	I <sup>2</sup> PAK	80	13.9	2.0 ... 3.5	45
IPP028N08N3 G	SP000680766	IPP028N08N3GXKSA1	TO-220	80	2.8	2.0 ... 3.5	100
IPP037N08N3 G	SP000680776	IPP037N08N3GXKSA1	TO-220	80	3.7	2.0 ... 3.5	100
IPP037N08N3 G E8181	SP000765976	IPP037N08N3E8181XKSA1	TO-220	80	3.7	2.0 ... 3.5	100
IPP057N08N3 G	SP000680810	IPP057N08N3GXKSA1	TO-220	80	5.7	2.0 ... 3.5	80
IPP070N08N3 G	SP000680828	IPP070N08N3GXKSA1	TO-220	80	7.0	2.0 ... 3.5	80

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

## N-Channel MOSFETs

### 80 V

(cont'd)

IPP100N08N3 G	SP000680856	IPP100N08N3GXKSA1	TO-220	80	10.0	2.0 ... 3.5	70
IPP139N08N3 G	SP000680870	IPP139N08N3GXKSA1	TO-220	80	13.9	2.0 ... 3.5	45
IPU135N08N3 G	SP000521642	IPU135N08N3GBKMA1	IPAK	80	13.5	2.0 ... 3.5	50

### 85 V

▼ IPP054NE8N G	SP000680804	IPP054NE8NGHKSA2	TO-220	85	5.4	2.0 ... 4.0	67
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### 100V

▼ BSB056N10NN3 G	SP000604540	BSB056N10NN3GXUMA1	CanPAK™ M-size	100	5.6	2.0 ... 3.5	83
▼ BSB056N10NN3 G	SP000856178	BSB056N10NN3GE8182XUMA1	CanPAK™ M-size	100	5.6	2.0 ... 3.5	83
▼ BSC046N10NS3 G	SP000907922	BSC046N10NS3GATMA1	SuperSO8	100	4.6	2.0 ... 3.5	100
BSC060N10NS3 G	SP000446584	BSC060N10NS3GATMA1	SuperSO8	100	6.0	2.0 ... 3.5	90
BSC070N10NS3 G	SP000778082	BSC070N10NS3GATMA1	SuperSO8	100	7.0	2.0 ... 3.5	90
■ BSC079N10NS G	SP000379590	BSC079N10NSGATMA1	SuperSO8	100	7.9	2.0 ... 4.0	100
BSC082N10LS G	SP000379609	BSC082N10LSGATMA1	SuperSO8	100	8.2	1.2 ... 2.4	100
■ BSC100N10NSF G	SP000379595	BSC100N10NSFGATMA1	SuperSO8	100	10	2.0 ... 4.0	90
BSC105N10LSF G	SP000388502	BSC105N10LSFGATMA1	SuperSO8	100	10.5	1.2 ... 2.4	90
BSC109N10NS3 G	SP000778132	BSC109N10NS3GATMA1	SuperSO8	100	10.9	2.0 ... 3.5	63
BSC118N10NS G	SP000379599	BSC118N10NSGATMA1	SuperSO8	100	11.8	2.0 ... 4.0	71
BSC123N10LS G	SP000379612	BSC123N10LSGATMA1	SuperSO8	100	12.3	1.2 ... 2.4	71
BSC152N10NSF G	SP000379601	BSC152N10NSFGATMA1	SuperSO8	100	15.2	2.0 ... 4.0	63
■ BSC159N10LSF G	SP000379614	BSC159N10LSFGATMA1	SuperSO8	100	15.9	1.2 ... 2.4	63
BSC160N10NS3 G	SP000482382	BSC160N10NS3GATMA1	SuperSO8	100	16	2.0 ... 3.5	42
BSC196N10NS G	SP000379604	BSC196N10NSGATMA1	SuperSO8	100	19.6	2.0 ... 4.0	45
BSC205N10LS G	SP000379616	BSC205N10LSGATMA1	SuperSO8	100	20.5	1.2 ... 2.4	45
BSC252N10NSF G	SP000379608	BSC252N10NSFGATMA1	SuperSO8	100	25.2	2.0 ... 4.0	39
BSC265N10LSF G	SP000379618	BSC265N10LSFGATMA1	SuperSO8	100	26.5	1.2 ... 2.4	40
BSC440N10NS3 G	SP000482420	BSC440N10NS3GATMA1	SuperSO8	100	44	2.0 ... 3.5	18
BSC750N10ND G	SP000359610	BSC750N10NDGATMA1	SuperSO8 dual	100	75	2.0 ... 4.0	13
BSZ160N10NS3 G	SP000482390	BSZ160N10NS3GATMA1	S3O8	100	16	2.0 ... 3.5	40
BSZ440N10NS3 G	SP000482442	BSZ440N10NS3GATMA1	S3O8	100	44	2.0 ... 3.5	18
IPA030N10N3 G	SP000464914	IPA030N10N3GXKSA1	TO-220 FullPAK	100	3.0	2.0 ... 3.5	79
IPA045N10N3 G	SP000478912	IPA045N10N3GXKSA1	TO-220 FullPAK	100	4.5	2.0 ... 3.5	64
IPA086N10N3 G	SP000485984	IPA086N10N3GXKSA1	TO-220 FullPAK	100	8.6	2.0 ... 3.5	45
IPA126N10N3 G	SP000485964	IPA126N10N3GXKSA1	TO-220 FullPAK	100	12.6	2.0 ... 3.5	35
IPA180N10N3 G	SP000480108	IPA180N10N3GXKSA1	TO-220 FullPAK	100	18	2.0 ... 3.5	19
IPB025N10N3 G	SP000469888	IPB025N10N3GATMA1	D <sup>2</sup> PAK 7pin	100	2.5	2.0 ... 3.5	180
▼ IPB025N10N3 G	SP000939338	IPB025N10N3GE8187ATMA1	D <sup>2</sup> PAK 7pin	100	2.5	2.0 ... 3.5	180
IPB027N10N3 G	SP000506508	IPB027N10N3GATMA1	D <sup>2</sup> PAK	100	2.7	2.0 ... 3.5	120
IPB039N10N3 G	SP000482428	IPB039N10N3GATMA1	D <sup>2</sup> PAK 7pin	100	3.9	2.0 ... 3.5	160
▼ IPB039N10N3 G	SP000939340	IPB039N10N3GE8187ATMA1	D <sup>2</sup> PAK 7pin	100	3.9	2.0 ... 3.5	160
IPB042N10N3 G	SP000446880	IPB042N10N3GATMA1	D <sup>2</sup> PAK	100	4.2	2.0 ... 3.5	100
▼ IPB042N10N3 G	SP000939332	IPB042N10N3GE8187ATMA1	D <sup>2</sup> PAK	100	4.2	2.0 ... 3.5	100
IPB083N10N3 G	SP000458812	IPB083N10N3GATMA1	D <sup>2</sup> PAK	100	8.2	2.0 ... 3.5	80
IPB123N10N3 G	SP000485968	IPB123N10N3GATMA1	D <sup>2</sup> PAK	100	12.3	2.0 ... 3.5	58
■ IPB26CN10N G	SP000277692	IPB26CN10NGATMA1	D <sup>2</sup> PAK	100	26	2.0 ... 4.0	35
■ IPB34CN10N G	SP000277693	IPB34CN10NGATMA1	D <sup>2</sup> PAK	100	34	2.0 ... 4.0	27

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A
<b>N-Channel MOSFETs</b>							
<b>100 V</b> (cont'd)							
■ IPB50CN10N G	SP000277696	IPB50CN10NGATMA1	D <sup>2</sup> PAK	100	50	2.0 ... 4.0	20
IPD068N10N3 G	SP000469892	IPD068N10N3GBTMA1	DPAK	100	6.8	2.0 ... 3.5	90
IPD082N10N3 G	SP000485986	IPD082N10N3GBTMA1	DPAK	100	8.2	2.0 ... 3.5	80
IPD122N10N3 G	SP000485966	IPD122N10N3GBTMA1	DPAK	100	12.2	2.0 ... 4.0	59
■ IPD12CN10N G	SP000096476	IPD12CN10NGBUMA1	DPAK	100	12.4	2.0 ... 4.0	67
IPD180N10N3 G	SP000482438	IPD180N10N3GBTMA1	DPAK	100	18	2.0 ... 3.5	43
IPD25CN10N G	SP000096456	IPD25CN10NGBUMA1	DPAK	100	25	2.0 ... 4.0	35
IPD33CN10N G	SP000096458	IPD33CN10NGBUMA1	DPAK	100	33	2.0 ... 4.0	27
IPD78CN10N G	SP000096460	IPD78CN10NGBUMA1	DPAK	100	78	2.0 ... 4.0	13
IPI0030N10N3 G	SP000680648	IPI030N10N3GXKSA1	I <sup>2</sup> PAK	100	3.0	2.0 ... 3.5	100
■ IPI04CN10N G	SP000680660	IPI04CN10NGXKSA1	I <sup>2</sup> PAK	100	4.2	2.0 ... 4.0	100
IPI045CN10N3 G	SP000683068	IPI045N10N3GXKSA1	I <sup>2</sup> PAK	100	4.5	2.0 ... 3.5	100
IPI072CN10N3 G	SP000680674	IPI072N10N3GXKSA1	I <sup>2</sup> PAK	100	7.2	2.0 ... 3.5	80
IPI086CN10N3 G	SP000683070	IPI086N10N3GXKSA1	I <sup>2</sup> PAK	100	8.6	2.0 ... 3.5	80
IPI126N10N3 G	SP000683072	IPI126N10N3GXKSA1	I <sup>2</sup> PAK	100	12.6	2.7 ... 3.5	46
IPI180N10N3 G	SP000683076	IPI180N10N3GXKSA1	I <sup>2</sup> PAK	100	18	2.7 ... 3.5	43
■ IPI26CN10N G	SP000208932	IPI26CN10NGHKSA1	I <sup>2</sup> PAK	100	26	2.0 ... 4.0	35
■ IPI35CN10N G	SP000680730	IPI35CN10NGAKSA1	I <sup>2</sup> PAK	100	35	2.0 ... 4.0	27
■ IPI50CN10N G	SP000208937	IPI50CN10NGHKSA1	I <sup>2</sup> PAK	100	50	2.0 ... 4.0	20
■ IPI80CN10N G	SP000680758	IPI80CN10NGAKSA1	I <sup>2</sup> PAK	100	80	2.0 ... 4.0	13
IPP030N10N3 G	SP000680768	IPP030N10N3GXKSA1	TO-220	100	3.0	2.0 ... 3.5	100
■ IPP04CN10N G	SP000680796	IPP04CN10NGXKSA1	TO-220	100	4.2	2.0 ... 4.0	100
IPP045N10N3 G	SP000680794	IPP045N10N3GXKSA1	TO-220	100	4.5	2.0 ... 3.5	100
■ IPP05CN10L G	SP000308801	IPP05CN10LGHKSA1	TO-220	100	5.1	1.2 ... 2.4	100
■ IPP05CN10N G	SP000680814	IPP05CN10NGXKSA1	TO-220	100	5.4	2.0 ... 4.0	100
IPP06CN10L G	SP000680820	IPP06CN10LGXKSA1	TO-220	100	6.2	1.2 ... 2.4	100
IPP072N10N3 G	SP000680830	IPP072N10N3GXKSA1	TO-220	100	7.2	2.0 ... 3.5	80
■ IPP08CN10L G	SP000308791	IPP08CN10LGHKSA1	TO-220	100	8.0	1.2 ... 2.4	98
IPP086N10N3 G	SP000680840	IPP086N10N3GXKSA1	TO-220	100	8.6	2.0 ... 3.5	80
IPP12CN10L G	SP000680864	IPP12CN10LGXKSA1	TO-220	100	12	1.2 ... 2.4	69
IPP126N10N3 G	SP000683088	IPP126N10N3GXKSA1	TO-220	100	12.6	2.0 ... 3.5	58
IPP16CN10L G	SP000680878	IPP16CN10LGXKSA1	TO-220	100	15.7	1.2 ... 2.4	54
■ IPP16CN10N G	SP000680880	IPP16CN10NGXKSA1	TO-220	100	16.5	2.0 ... 4.0	53
IPP180N10N3 G	SP000683090	IPP180N10N3GXKSA1	TO-220	100	18	2.0 ... 3.5	43
■ IPP26CN10N G	SP000680922	IPP26CN10NGXKSA1	TO-220	100	26	2.0 ... 4.0	35
■ IPP50CN10N G	SP000680930	IPP50CN10NGXKSA1	TO-220	100	50	2.0 ... 4.0	20
■ IPP80CN10N G	SP000680966	IPP80CN10NGXKSA1	TO-220	100	80	2.0 ... 4.0	13
▼ IPS118N10N G	SP000680974		IPAK SL	100	11.8	2.0 ... 4.0	75
IPS12CN10L G	SP000311530	IPS12CN10LGBKMA1	IPAK SL	100	12	1.2 ... 2.4	69
BSP373	SP000087065	BSP373L6327HTSA1	SOT223	100	300	2.1 ... 4.0	1.70
BSP372	SP000087064	BSP372L6327HTSA1	SOT223	100	310@5V	0.8 ... 2.0	1.7
BSP296	SP000089209	BSP296L6327HTSA1	SOT223	100	700	0.8 ... 1.8	1.1
BSP296 L6433	SP000089212	BSP296L6433HTMA1	SOT223	100	700	0.8 ... 1.8	1.1
BSP123	SP000089202	BSP123L6327HTSA1	SOT223	100	6000	0.8 ... 1.8	0.37
BSS123	SP000084574	BSS123L6327HTSA1	SOT23	100	6000	0.8 ... 1.8	0.17
BSS123 L6433	SP000247292	BSS123L6433HTMA1	SOT23	100	6000	0.8 ... 1.8	0.37
BSS119	SP000247290	BSS119L6327HTSA1	SOT23	100	6000	1.3 ... 2.3	0.17
BSS119 L6433	SP000247291	BSS119L6433HTMA1	SOT23	100	6000	1.3 ... 2.3	0.17

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

## N-Channel MOSFETs

### 120 V

BSC077N12NS3 G	SP000652750	BSC077N12NS3GATMA1	SuperSO8	120	7.7	2.0 ... 4.0	98
BSC190N12NS3 G	SP000652752	BSC190N12NS3GATMA1	SuperSO8	120	19	2.0 ... 4.0	44
BSC240N12NS3 G	SP000819812	BSC240N12NS3GATMA1	SuperSO8	120	24	2.0 ... 4.0	37
BSZ240N12NS3 G	SP000819814	BSZ240N12NS3GATMA1	S3O8	120	24	2.0 ... 4.0	37
IPB036N12N3 G	SP000675204	IPB036N12N3GATMA1	D <sup>2</sup> PAK	120	3.6	2.0 ... 4.0	180
IPB038N12N3 G	SP000694160	IPB038N12N3GATMA1	D <sup>2</sup> PAK	120	3.8	2.0 ... 4.0	120
IPB144N12N3 G	SP000694166	IPB144N12N3GATMA1	D <sup>2</sup> PAK	120	14.4	2.0 ... 4.0	56
IPD110N12N3 G	SP000674466	IPD110N12N3GBUMA1	DPAK	120	11	2.0 ... 4.0	75
IPI041N12N3 G	SP000652748	IPI041N12N3GAKSA1	I <sup>2</sup> PAK	120	4.1	2.0 ... 4.0	120
IPI076N12N3 G	SP000652738	IPI076N12N3GAKSA1	I <sup>2</sup> PAK	120	7.6	2.0 ... 4.0	100
IPI147N12N3 G	SP000652744	IPI147N12N3GAKSA1	I <sup>2</sup> PAK	120	14.7	2.0 ... 4.0	56
IPP041N12N3 G	SP000652746	IPP041N12N3GXKSA1	TO-220	120	4.1	2.0 ... 4.0	120
IPP048N12N3 G	SP000652734	IPP048N12N3GXKSA1	TO-220	120	4.8	2.0 ... 4.0	100
IPP076N12N3 G	SP000652736	IPP076N12N3GXKSA1	TO-220	120	7.6	2.0 ... 4.0	100
IPP114N12N3 G	SP000652740	IPP114N12N3GXKSA1	TO-220	120	11.4	2.0 ... 4.0	75
IPP147N12N3 G	SP000652742	IPP147N12N3GXKSA1	TO-220	120	14.7	2.0 ... 4.0	56
▼ IPS110N12N3 G	SP000674456		IPAK SL	120	11	2.0 ... 4.0	75

### 150 V

▼ BSB165N15N3 G	SP000617000	BSB165N15N3GXUMA1	CanPAK™ M-size	150	16.5	2.0 ... 4.0	45
▼ BSB280N15N3 G	SP000604534	BSB280N15N3GXUMA1	CanPAK™ M-size	150	28	2.0 ... 4.0	30
BSC190N15NS3 G	SP000416636	BSC190N15NS3GATMA1	SuperSO8	150	19	2.0 ... 4.0	50
BSC360N15NS3 G	SP000778134	BSC360N15NS3GATMA1	SuperSO8	150	36	2.0 ... 4.0	33
BSC520N15NS3 G	SP000521716	BSC520N15NS3GATMA1	SuperSO8	150	52	2.0 ... 4.0	21
BSZ520N15NS3 G	SP000607022	BSZ520N15NS3GATMA1	S3O8	150	52	2.0 ... 4.0	21
BSZ900N15NS3 G	SP000677866	BSZ900N15NS3GATMA1	S3O8	150	90	2.0 ... 4.0	13
IPA075N15N3 G	SP000607018	IPA075N15N3GXKSA1	TO-220 FullPAK	150	7.5	2.0 ... 4.0	41
IPA105N15N3 G	SP000677850	IPA105N15N3GXKSA1	TO-220 FullPAK	150	10.5	2.0 ... 4.0	37
IPB065N15N3 G	SP000521724	IPB065N15N3GATMA1	D <sup>2</sup> PAK	150	6.5	2.0 ... 4.0	130
▼ IPB065N15N3 G	SP000939336	IPB065N15N3GE8187ATMA1	D <sup>2</sup> PAK	150	6.5	2.0 ... 4.0	130
IPB072N15N3 G	SP000386664	IPB072N15N3GATMA1	D <sup>2</sup> PAK	150	7.2	2.0 ... 4.0	100
▼ IPB072N15N3 G	SP000938816	IPB072N15N3GE8187ATMA1	D <sup>2</sup> PAK	150	7.2	2.0 ... 4.0	100
IPB108N15N3 G	SP000677862	IPB108N15N3GATMA1	D <sup>2</sup> PAK	150	10.8	2.0 ... 4.0	83
IPB200N15N3 G	SP000414740	IPB200N15N3GATMA1	D <sup>2</sup> PAK	150	20	2.0 ... 4.0	50
IPB530N15N3 G	SP000521718	IPB530N15N3GATMA1	D <sup>2</sup> PAK	150	53	2.0 ... 4.0	8.7
IPD200N15N3 G	SP000386665	IPD200N15N3GBTMA1	DPAK	150	20	2.0 ... 4.0	50
IPD530N15N3 G	SP000521720	IPD530N15N3GBTMA1	DPAK	150	53	2.0 ... 4.0	8.7
IPI075N15N3 G	SP000680676	IPI075N15N3GXKSA1	I <sup>2</sup> PAK	150	7.5	2.0 ... 4.0	100
▼ IPI111N15N3 G	SP000680232		I <sup>2</sup> PAK	150	11.1	2.0 ... 4.0	83
IPI200N15N3 G	SP000680722	IPI200N15N3GXKSA1	I <sup>2</sup> PAK	150	20	2.0 ... 4.0	50
▼ IPI530N15N3 G	SP000807642		I <sup>2</sup> PAK	150	53	2.0 ... 4.0	8.7
IPP075N15N3 G	SP000680832	IPP075N15N3GXKSA1	TO-220	150	7.5	2.0 ... 4.0	100
IPP111N15N3 G	SP000677860	IPP111N15N3GXKSA1	TO-220	150	11.1	2.0 ... 4.0	83
IPP200N15N3 G	SP000680884	IPP200N15N3GXKSA1	TO-220	150	20	2.0 ... 4.0	50
IPP530N15N3 G	SP000521722	IPP530N15N3GXKSA1	TO-220	150	53	2.0 ... 4.0	8.7

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

**N-Channel MOSFETs****200 V**

BSC320N20NS3 G	SP000676410	BSC320N20NS3GATMA1	SuperSO8	200	32	2.0 ... 4.0	36
BSC900N20NS3 G	SP000781780	BSC900N20NS3GATMA1	SuperSO8	200	90	2.0 ... 4.0	15.2
BSC12DN20NS3 G	SP000781774	BSC12DN20NS3GATMA1	SuperSO8	200	125	2.0 ... 4.0	11.3
BSC22DN20NS3 G	SP000781778	BSC22DN20NS3GATMA1	SuperSO8	200	225	2.0 ... 4.0	7.0
BSZ900N20NS3 G	SP000781806	BSZ900N20NS3GATMA1	S3O8	200	90	2.0 ... 4.0	15.2
BSZ12DN20NS3 G	SP000781784	BSZ12DN20NS3GATMA1	S3O8	200	125	2.0 ... 4.0	11.3
BSZ22DN20NS3 G	SP000781794	BSZ22DN20NS3GATMA1	S3O8	200	225	2.0 ... 4.0	7.0
IPB107N20N3 G	SP000676406	IPB107N20N3GATMA1	D <sup>2</sup> PAK	200	10.7	2.0 ... 4.0	88
▼ IPB107N20NA	SP000877674	IPB107N20NAATMA1	D <sup>2</sup> PAK	200	11	2.0 ... 4.0	88
IPB320N20N3 G	SP000691172	IPB320N20N3GATMA1	D <sup>2</sup> PAK	200	32	2.0 ... 4.0	34
IPD320N20N3 G	SP000677838	IPD320N20N3GBTMA1	DPAK	200	32	2.0 ... 4.0	34
SPD07N20 G	SP000449008	SPD07N20GBTMA1	DPAK	200	400	2.1 ... 4.0	7
IPI110N20N3 G	SP000714304	IPI110N20N3GAKSA1	I <sup>2</sup> PAK	200	11	2.0 ... 4.0	65
IPI320N20N3 G	SP000714312	IPI320N20N3GAKSA1	I <sup>2</sup> PAK	200	32	2.0 ... 4.0	22
▼ IPP110N20NA	SP000877672	IPP110N20NAAKSA1	TO-220	200	11	2.0 ... 4.0	88
IPP110N20N3 G	SP000677892	IPP110N20N3GXKSA1	TO-220	200	11.1	2.0 ... 4.0	88
IPP320N20N3 G	SP000677842	IPP320N20N3GXKSA1	TO-220	200	32	2.0 ... 4.0	34
BUZ30A H	SP000682990	BUZ30AHXKSA1	TO-220	200	130	2.1 ... 4.0	21
BUZ30A H3045A	SP000736082	BUZ30AH3045AATMA1	TO-220	200	130	2.1 ... 4.0	21
BUZ31 H	SP000682992	BUZ31HXKSA1	TO-220	200	200	2.1 ... 4.0	14.5
BUZ31 H3045A	SP000736084	BUZ31H3045AATMA1	TO-220	200	200	2.1 ... 4.0	14.5
BUZ31L H	SP000682996	BUZ31LHXKSA1	TO-220	200	200	1.2 ... 2.0	13.5
BUZ32 H	SP000682998	BUZ32HXKSA1	TO-220	200	400	2.1 ... 4.0	9.5
BUZ32 H3045A	SP000736086	BUZ32H3045AATMA1	TO-220	200	400	2.1 ... 4.0	9.5
BUZ73 H	SP000683000	BUZ73HXKSA1	TO-220	200	400	2.1 ... 4.0	7.0
BUZ73 H3046	SP000683002	BUZ73H3046XKSA1	TO-220	200	400	2.1 ... 4.0	7.0
BUZ73AL H	SP000683012	BUZ73ALHXKSA1	TO-220	200	400	1.2 ... 2.0	7.0
BUZ73L H	SP000683014	BUZ73LHXKSA1	TO-220	200	400	1.2 ... 2.0	7.0
BUZ73A H	SP000683004	BUZ73AHXKSA1	TO-220	200	600	2.1 ... 4.0	5.5
BUZ73A H3046	SP000683006	BUZ73AH3046XKSA1	TO-220	200	600	2.1 ... 4.0	5.5
BSP297	SP000089213	BSP297L6327HTSA1	SOT223	200	1800	0.8 ... 1.8	0.66

**240 V**

BSP88	SP000089217	BSP88L6327HTSA1	SOT223	240	6000	0.6 ... 1.4	0.35
BSP89	SP000089216	BSP89L6327HTSA1	SOT223	240	6000	0.8 ... 1.8	0.35
BSS87	SP000095794	BSS87L6327HTSA1	SOT89	240	6000	0.8 ... 1.8	0.26
BSS131	SP000702620	BSS131H6327XTSA1	SOT23	240	14000	0.8 ... 1.8	0.11

**250 V**

BSC600N25NS3 G	SP000676402	BSC600N25NS3GATMA1	SuperSO8	250	60	2.0 ... 4.0	25
BSC16DN25NS3 G	SP000781782	BSC16DN25NS3GATMA1	SuperSO8	250	165	2.0 ... 4.0	10.9
BSZ16DN25NS3 G	SP000781800	BSZ16DN25NS3GATMA1	S3O8	250	165	2.0 ... 4.0	10.9
BSZ42DN15NS3 G	SP000781796	BSZ42DN25NS3GATMA1	S3O8	250	425	2.0 ... 4.0	5.0
IPB200N25N3 G	SP000677896	IPB200N25N3GATMA1	D <sup>2</sup> PAK	250	20	2.0 ... 4.0	64
IPB600N25N3 G	SP000676408	IPB600N25N3GATMA1	D <sup>2</sup> PAK	250	60	2.0 ... 4.0	25
IPD600N25N3 G	SP000676404	IPD600N25N3GBTMA1	DPAK	250	60	2.0 ... 4.0	25
IPI200N25N3 G	SP000714308	IPI200N25N3GAKSA1	I <sup>2</sup> PAK	250	20	2.0 ... 4.0	64
IPI600N25N3 G	SP000714316	IPI600N25N3GAKSA1	I <sup>2</sup> PAK	250	60	2.0 ... 4.0	22
IPP200N25N3 G	SP000677894	IPP200N25N3GXKSA1	TO-220	250	20	2.0 ... 4.0	64
IPP600N25N3 G	SP000677832	IPP600N25N3GXKSA1	TO-220	250	60	2.0 ... 4.0	25

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				$m\Omega$	$V$	$A$	

## N-Channel MOSFETs

### 400 V

BSP298	SP000088258	BSP298L6327HUSA1	SOT223	400	3000	2.1 ... 4.0	0.50
BSP324	SP000089203	BSP324L6327HTSA1	SOT223	400	25000	1.3 ... 2.3	0.17

### 500 V

IPA50R140CP	SP000234988	IPA50R140CPXKSA1	TO-220 FullPAK	500	140	2.5 ... 3.5	23
SPA21N50C3	SP000216364	SPA21N50C3XKSA1	TO-220 FullPAK	500	190	2.1 ... 3.9	21
IPA50R199CP	SP000236081	IPA50R199CPXKSA1	TO-220 FullPAK	500	199	2.5 ... 3.5	17
IPA50R250CP	SP000236080	IPA50R250CPXKSA1	TO-220 FullPAK	500	250	2.5 ... 3.5	13
SPA16N50C3	SP000216351	SPA16N50C3XKSA1	TO-220 FullPAK	500	280	2.1 ... 3.9	16
IPA50R299CP	SP000236079	IPA50R299CPXKSA1	TO-220 FullPAK	500	299	2.5 ... 3.5	12
IPA50R350CP	SP000236078	IPA50R350CPXKSA1	TO-220 FullPAK	500	350	2.5 ... 3.5	10
SPA12N50C3	SP000216322	SPA12N50C3XKSA1	TO-220 FullPAK	500	380	2.1 ... 3.9	11.6
IPA50R399CP	SP000234987	IPA50R399CPXKSA1	TO-220 FullPAK	500	399	2.5 ... 3.5	9.0
IPA50R520CP	SP000236076	IPA50R520CPXKSA1	TO-220 FullPAK	500	520	2.5 ... 3.5	7.1
SPA08N50C3	SP000216306	SPA08N50C3XKSA1	TO-220 FullPAK	500	600	2.1 ... 3.9	7.6
SPA04N50C3	SP000216298	SPA04N50C3XKSA1	TO-220 FullPAK	500	950	2.1 ... 3.9	4.5
IPB50R140CP	SP000212746	IPB50R140CPATMA1	D <sup>2</sup> PAK	500	140	2.5 ... 3.5	23
SPB21N50C3	SP000013833	SPB21N50C3ATMA1	D <sup>2</sup> PAK	500	190	2.1 ... 3.9	21
IPB50R199CP	SP000236092	IPB50R199CPATMA1	D <sup>2</sup> PAK	500	199	2.5 ... 3.5	17
IPB50R250CP	SP000236093	IPB50R250CPATMA1	D <sup>2</sup> PAK	500	250	2.5 ... 3.5	13
SPB16N50C3	SP000014895	SPB16N50C3ATMA1	D <sup>2</sup> PAK	500	280	2.1 ... 3.9	16
IPB50R299CP	SP000236094	IPB50R299CPATMA1	D <sup>2</sup> PAK	500	299	2.5 ... 3.5	12
SPB12N50C3	SP000014894	SPB12N50C3ATMA1	D <sup>2</sup> PAK	500	380	2.1 ... 3.9	11.6
SPB04N50C3	SP000014477	SPB04N50C3ATMA1	D <sup>2</sup> PAK	500	950	2.1 ... 3.9	4.5
IPD50R399CP	SP000307379	IPD50R399CPBTMA1	DPAK	500	399	2.5 ... 3.5	9.0
IPD50R520CP	SP000307380	IPD50R520CPBTMA1	DPAK	500	520	2.5 ... 3.5	7.0
SPD08N50C3	SP000307395	SPD08N50C3BTMA1	DPAK	500	600	2.1 ... 3.9	7.6
SPD04N50C3	SP000313945	SPD04N50C3BTMA1	DPAK	500	950	2.1 ... 3.9	4.5
SPD03N50C3	SP000307392	SPD03N50C3BTMA1	DPAK	500	1400	2.1 ... 3.9	3.2
SPD02N50C3	SP000313942	SPD02N50C3BTMA1	DPAK	500	3000	2.1 ... 3.9	1.8
IPI50R140CP	SP000680734	IPI50R140CPXKSA1	I <sup>2</sup> PAK	500	140	2.5 ... 3.5	23
SPI21N50C3	SP000014463	SPI21N50C3HKSA1	I <sup>2</sup> PAK	500	190	2.1 ... 3.9	21
SPI21N50C3	SP000681012	SPI21N50C3XKSA1	I <sup>2</sup> PAK	500	190	2.1 ... 3.9	21
IPI50R199CP	SP000523756	IPI50R199CPXKSA1	I <sup>2</sup> PAK	500	199	2.5 ... 3.5	40
IPI50R250CP	SP000523750	IPI50R250CPXKSA1	I <sup>2</sup> PAK	500	250	2.5 ... 3.5	13
IPI50R299CP	SP000523748	IPI50R299CPXKSA1	I <sup>2</sup> PAK	500	299	2.5 ... 3.5	12
SPI16N50C3	SP000014470	SPI16N50C3HKSA1	I <sup>2</sup> PAK	500	280	2.1 ... 3.9	16
SPI16N50C3	SP000681004	SPI16N50C3XKSA1	I <sup>2</sup> PAK	500	280	2.1 ... 3.9	16
IPI50R350CP	SP000680736	IPI50R350CPXKSA1	I <sup>2</sup> PAK	500	350	2.5 ... 3.5	10
SPI12N50C3	SP000014467	SPI12N50C3HKSA1	I <sup>2</sup> PAK	500	380	2.1 ... 3.9	11.6
SPI12N50C3	SP000680996	SPI12N50C3XKSA1	I <sup>2</sup> PAK	500	380	2.1 ... 3.9	11.6
IPI50R399CP	SP000259979	IPI50R399CPHKSA1	I <sup>2</sup> PAK	500	399	2.5 ... 3.5	9.0
IPI50R399CP	SP000680738	IPI50R399CPXKSA1	I <sup>2</sup> PAK	500	399	2.5 ... 3.5	9.0
SPI08N50C3	SP000014461	SPI08N50C3HKSA1	I <sup>2</sup> PAK	500	600	2.1 ... 3.9	7.6
SPI08N50C3	SP000680984	SPI08N50C3XKSA1	I <sup>2</sup> PAK	500	600	2.1 ... 3.9	7.6

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on) max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

**N-Channel MOSFETs****500 V**  
(cont'd)

IPP50R140CP	SP000234986	IPP50R140CPHKSA1	TO-220	500	140	2.5 ... 3.5	23
IPP50R140CP	SP000680932	IPP50R140CPXKSA1	TO-220	500	140	2.5 ... 3.5	23
SPP21N50C3	SP000013832	SPP21N50C3HKSA1	TO-220	500	190	2.1 ... 3.9	21
SPP21N50C3	SP000681066	SPP21N50C3XKSA1	TO-220	500	190	2.1 ... 3.9	21
IPP50R199CP	SP000236074	IPP50R199CPHKSA1	TO-220	500	199	2.5 ... 3.5	17
IPP50R199CP	SP000680934	IPP50R199CPXKSA1	TO-220	500	199	2.5 ... 3.5	17
IPP50R250CP	SP000680936	IPP50R250CPXKSA1	TO-220	500	250	2.5 ... 3.5	13
SPP16N50C3	SP000014460	SPP16N50C3HKSA1	TO-220	500	280	2.1 ... 3.9	16
SPP16N50C3	SP000681056	SPP16N50C3XKSA1	TO-220	500	280	2.1 ... 3.9	16
IPP50R299CP	SP000236070	IPP50R299CPHKSA1	TO-220	500	299	2.5 ... 3.5	12
IPP50R299CP	SP000680938	IPP50R299CPXKSA1	TO-220	500	299	2.5 ... 3.5	12
IPP50R350CP	SP000236069	IPP50R350CPHKSA1	TO-220	500	350	2.5 ... 3.5	10
IPP50R350CP	SP000680940	IPP50R350CPXKSA1	TO-220	500	350	2.5 ... 3.5	10
SPP12N50C3	SP000014459	SPP12N50C3HKSA1	TO-220	500	380	2.1 ... 3.9	11.6
SPP12N50C3	SP000681048	SPP12N50C3XKSA1	TO-220	500	380	2.1 ... 3.9	11.6
IPP50R399CP	SP000234985	IPP50R399CPHKSA1	TO-220	500	399	2.5 ... 3.5	9.0
IPP50R399CP	SP000680942	IPP50R399CPXKSA1	TO-220	500	399	2.5 ... 3.5	9.0
IPP50R520CP	SP000236068	IPP50R520CPHKSA1	TO-220	500	520	2.5 ... 3.5	7.1
IPP50R520CP	SP000680944	IPP50R520CPXKSA1	TO-220	500	520	2.5 ... 3.5	7.1
SPP08N50C3	SP000013834	SPP08N50C3HKSA1	TO-220	500	600	2.1 ... 3.9	7.6
SPP08N50C3	SP000681038	SPP08N50C3XKSA1	TO-220	500	600	2.1 ... 3.9	7.6
SPP04N50C3	SP000014478	SPP04N50C3HKSA1	TO-220	500	950	2.1 ... 3.9	4.5
SPP04N50C3	SP000681022	SPP04N50C3XKSA1	TO-220	500	950	2.1 ... 3.9	4.5
IPS50R520CP	SP000307420	IPS50R520CPBKMA1	IPAK SL	500	520	2.5 ... 3.5	7.1
SPW52N50C3	SP000014626	SPW52N50C3FKSA1	TO-247	500	70	2.1 ... 3.9	52
SPW32N50C3	SP000014625	SPW32N50C3FKSA1	TO-247	500	110	2.1 ... 3.9	32
IPW50R140CP	SP000234989	IPW50R140CPFKSA1	TO-247	500	140	2.5 ... 3.5	23
SPW21N50C3	SP000014464	SPW21N50C3FKSA1	TO-247	500	190	2.1 ... 3.9	21
IPW50R199CP	SP000236096	IPW50R199CPFKSA1	TO-247	500	199	2.5 ... 3.5	17
IPW50R250CP	SP000301162	IPW50R250CPFKSA1	TO-247	500	250	2.5 ... 3.5	13
SPW16N50C3	SP000014472	SPW16N50C3FKSA1	TO-247	500	280	2.1 ... 3.9	16
IPW50R299CP	SP000301163	IPW50R299CPFKSA1	TO-247	500	299	2.5 ... 3.5	12
IPW50R350CP	SP000301164	IPW50R350CPFKSA1	TO-247	500	350	2.5 ... 3.5	10
SPW12N50C3	SP000014469	SPW12N50C3FKSA1	TO-247	500	380	2.1 ... 3.9	11.6
IPW50R399CP	SP000259980	IPW50R399CPFKSA1	TO-247	500	399	2.5 ... 3.5	9.0
BSP299	SP000089200	BSP299L6327HUSA1	SOT223	500	4000	2.1 ... 4.0	0.40

**600 V**

IPA60R125CP	SP000095275	IPA60R125CPXKSA1	TO-220 FullIPAK	600	125	2.5 ... 3.5	25
IPA60R165CP	SP000096437	IPA60R165CPXKSA1	TO-220 FullIPAK	600	165	2.5 ... 3.5	21
SPA20N60C3	SP000216354	SPA20N60C3XKSA1	TO-220 FullIPAK	600	190	2.1 ... 3.9	20.7
IPA60R199CP	SP000094146	IPA60R199CPXKSA1	TO-220 FullIPAK	600	199	2.5 ... 3.5	16
SPA20N60CFD	SP000216361	SPA20N60CFDXKSA1	TO-220 FullIPAK	600	220	3.0 ... 5.0	20.7
IPA60R250CP	SP000310226	IPA60R250CPXKSA1	TO-220 FullIPAK	600	250	2.5 ... 3.5	12
SPA15N60C3	SP000216325	SPA15N60C3XKSA1	TO-220 FullIPAK	600	280	2.1 ... 3.9	15
IPA60R299CP	SP000096438	IPA60R299CPXKSA1	TO-220 FullIPAK	600	299	2.5 ... 3.5	11
SPA15N60CFD	SP000264432	SPA15N60CFDXKSA1	TO-220 FullIPAK	600	330	3.0 ... 5.0	15

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				V	m $\Omega$	V	A

## N-Channel MOSFETs

### 600 V

(cont'd)

SPA11N60C3	SP000216312	SPA11N60C3XKSA1	TO-220 FullPAK	600	380	2.1 ... 3.9	11
IPA60R385CP	SP000089316	IPA60R385CPXKSA1	TO-220 FullPAK	600	385	2.5 ... 3.5	9.0
SPA11N60CFD	SP000216317	SPA11N60CFDXKSA1	TO-220 FullPAK	600	440	3.0 ... 5.0	11
IPA60R520CP	SP000405856	IPA60R520CPXKSA1	TO-220 FullPAK	600	520	2.5 ... 3.5	6.8
IPA60R600CP	SP000405884	IPA60R600CPXKSA1	TO-220 FullPAK	600	600	2.5 ... 3.5	6.1
SPA07N60C3	SP000216303	SPA07N60C3XKSA1	TO-220 FullPAK	600	600	2.1 ... 3.9	7.3
SPA07N60CFD	SP000264431	SPA07N60CFDXKSA1	TO-220 FullPAK	600	700	3.0 ... 5.0	6.6
SPA06N60C3	SP000216301	SPA06N60C3XKSA1	TO-220 FullPAK	600	750	2.1 ... 3.9	6.2
SPA04N60C3	SP000216299	SPA04N60C3XKSA1	TO-220 FullPAK	600	950	2.1 ... 3.9	4.5
SPA03N60C3	SP000216296	SPA03N60C3XKSA1	TO-220 FullPAK	600	1400	2.1 ... 3.9	3.2
IPB60R099CP	SP000088490	IPB60R099CPATMA1	D <sup>2</sup> PAK	600	99	2.5 ... 3.5	31
IPB60R125CP	SP000297368	IPB60R125CPATMA1	D <sup>2</sup> PAK	600	125	2.5 ... 3.5	25
IPB60R165CP	SP000096439	IPB60R165CPATMA1	D <sup>2</sup> PAK	600	165	2.5 ... 3.5	21
SPB20N60C3	SP000013520	SPB20N60C3ATMA1	D <sup>2</sup> PAK	600	190	2.1 ... 3.9	20.7
IPB60R199CP	SP000223256	IPB60R199CPATMA1	D <sup>2</sup> PAK	600	199	2.5 ... 3.5	16
IPB60R250CP	SP000358140	IPB60R250CPATMA1	D <sup>2</sup> PAK	600	250	2.5 ... 3.5	12
IPB60R299CP	SP000301161	IPB60R299CPATMA1	D <sup>2</sup> PAK	600	299	2.5 ... 3.5	11
SPB11N60C3	SP000013519	SPB11N60C3ATMA1	D <sup>2</sup> PAK	600	380	2.1 ... 3.9	11
IPB60R385CP	SP000228365	IPB60R385CPATMA1	D <sup>2</sup> PAK	600	385	2.5 ... 3.5	9.0
IPB60R520CP	SP000405868	IPB60R520CPATMA1	D <sup>2</sup> PAK	600	520	2.5 ... 3.5	6.8
IPB60R600CP	SP000405892	IPB60R600CPATMA1	D <sup>2</sup> PAK	600	600	2.5 ... 3.5	6.1
SPB07N60C3	SP000013518	SPB07N60C3ATMA1	D <sup>2</sup> PAK	600	600	2.1 ... 3.9	7.3
SPB04N60C3	SP000013533	SPB04N60C3ATMA1	D <sup>2</sup> PAK	600	950	2.1 ... 3.9	4.5
SPB03N60C3	SP000013517	SPB03N60C3ATMA1	D <sup>2</sup> PAK	600	1400	2.1 ... 3.9	3.2
SPB02N60C3	SP000013516	SPB02N60C3ATMA1	D <sup>2</sup> PAK	600	3000	2.1 ... 3.9	1.8
IPD60R385CP	SP000307381	IPD60R385CPBTMA1	DPAK	600	385	2.5 ... 3.5	9.0
IPD60R520CP	SP000405852	IPD60R520CPBTMA1	DPAK	600	520	2.5 ... 3.5	6.8
IPD60R600CP	SP000405878	IPD60R600CPBTMA1	DPAK	600	600	2.5 ... 3.5	6.1
SPD07N60C3	SP000313947	SPD07N60C3BTMA1	DPAK	600	600	2.1 ... 3.9	7.3
SPD06N60C3	SP000307394	SPD06N60C3BTMA1	DPAK	600	750	2.1 ... 3.9	6.2
SPD04N60C3	SP000313944	SPD04N60C3BTMA1	DPAK	600	950	2.1 ... 3.9	4.5
SPD03N60C3	SP000308772	SPD03N60C3BTMA1	DPAK	600	1400	2.1 ... 3.9	3.2
SPD02N60C3	SP000308771	SPD02N60C3BTMA1	DPAK	600	3000	2.1 ... 3.9	1.8
SPD01N60C3	SP000307382	SPD01N60C3BTMA1	DPAK	600	6000	2.1 ... 3.9	0.8
IPI60R099CP	SP000297356	IPI60R099CPXKSA1	I <sup>2</sup> PAK	600	99	2.5 ... 3.5	31
IPI60R125CP	SP000297355	IPI60R125CPAKSA1	I <sup>2</sup> PAK	600	125	2.5 ... 3.5	25
IPI60R165CP	SP000276736	IPI60R165CPAKSA1	I <sup>2</sup> PAK	600	165	2.5 ... 3.5	21
SPI20N60C3	SP000014453	SPI20N60C3HKSA1	I <sup>2</sup> PAK	600	190	2.1 ... 3.9	20.7
SPI20N60C3	SP000681006	SPI20N60C3XKSA1	I <sup>2</sup> PAK	600	190	2.1 ... 3.9	20.7
IPI60R199CP	SP000103248	IPI60R199CPAKSA1	I <sup>2</sup> PAK	600	199	2.5 ... 3.5	16
SPI20N60CFD	SP000229995	SPI20N60CFDHKSA1	I <sup>2</sup> PAK	600	220	3.0 ... 5.0	20.7
SPI20N60CFD	SP000681008	SPI20N60CFDXKSA1	I <sup>2</sup> PAK	600	220	3.0 ... 5.0	20.7

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

## N-Channel MOSFETs

600 V  
(cont'd)

SPI15N60C3	SP000014528	SPI15N60C3HKSA1	I <sup>2</sup> PAK	600	280	2.1 ... 3.9	15
SPI15N60C3	SP000680998	SPI15N60C3XKSA1	I <sup>2</sup> PAK	600	280	2.1 ... 3.9	15
IPI60R299CP	SP000103249	IPI60R299CPXKSA1	I <sup>2</sup> PAK	600	299	2.5 ... 3.5	11
SPI15N60CFD	SP000264433	SPI15N60CFDHKSA1	I <sup>2</sup> PAK	600	330	3.0 ... 5.0	15
SPI15N60CFD	SP000681000	SPI15N60CFDXKSA1	I <sup>2</sup> PAK	600	330	3.0 ... 5.0	15
SPI11N60C3	SP000013522	SPI11N60C3HKSA1	I <sup>2</sup> PAK	600	380	2.1 ... 3.9	11
SPI11N60C3	SP000680986	SPI11N60C3XKSA1	I <sup>2</sup> PAK	600	380	2.1 ... 3.9	11
IPI60R385CP	SP000103250	IPI60R385CPXKSA1	I <sup>2</sup> PAK	600	385	2.5 ... 3.5	9.0
IPI60R520CP	SP000405872	IPI60R520CPAKSA1	I <sup>2</sup> PAK	600	520	2.5 ... 3.5	6.8
IPI60R600CP	SP000405896	IPI60R600CPAKSA1	I <sup>2</sup> PAK	600	600	2.5 ... 3.5	6.1
SPI11N60CFD	SP000229994	SPI11N60CFDHKSA1	I <sup>2</sup> PAK	600	440	3.0 ... 5.0	11
SPI11N60CFD	SP000680990	SPI11N60CFDXKSA1	I <sup>2</sup> PAK	600	440	3.0 ... 5.0	11
SPI07N60C3	SP000013521	SPI07N60C3HKSA1	I <sup>2</sup> PAK	600	600	2.1 ... 3.9	7.3
SPI07N60C3	SP000680976	SPI07N60C3XKSA1	I <sup>2</sup> PAK	600	600	2.1 ... 3.9	7.3
IPL60R199CP	SP000841892	IPL60R199CPAUMA1	ThinPAK 8x8	600	199	2.5 ... 3.5	16.4
IPL60R299CP	SP000841896	IPL60R299CPAUMA1	ThinPAK 8x8	600	299	2.5 ... 3.5	11.1
IPL60R385CP	SP000841898	IPL60R385CPAUMA1	ThinPAK 8x8	600	385	2.5 ... 3.5	9.0
BSP125	SP000089204	BSP125L6327HTSA1	SOT223	600	45000	1.3 ... 2.3	0.12
BSP125 L6433	SP000089211	BSP125L6433HTMA1	SOT223	600	45000	1.3 ... 2.3	0.12
IPP60R099CP	SP000057021	IPP60R099CPAKSA1	TO-220	600	99	2.5 ... 3.5	31
IPP60R125CP	SP000088488	IPP60R125CPAKSA1	TO-220	600	125	2.5 ... 3.5	25
SPP24N60C3	SP000014690	SPP24N60C3HKSA1	TO-220	600	160	2.1 ... 3.9	24.3
SPP24N60C3	SP000681068	SPP24N60C3XKSA1	TO-220	600	160	2.1 ... 3.9	24.3
IPP60R165CP	SP000084279	IPP60R165CPAKSA1	TO-220	600	165	2.5 ... 3.5	21
SPP24N60CFD	SP000264426	SPP24N60CFDHKSA1	TO-220	600	185	3.0 ... 5.0	21.7
SPP24N60CFD	SP000681070	SPP24N60CFDXKSA1	TO-220	600	185	3.0 ... 5.0	21.7
SPP20N60C3	SP000013527	SPP20N60C3HKSA1	TO-220	600	190	2.1 ... 3.9	20.7
SPP20N60C3	SP000681058	SPP20N60C3XKSA1	TO-220	600	190	2.1 ... 3.9	20.7
IPP60R199CP	SP000084278	IPP60R199CPXKSA1	TO-220	600	199	2.5 ... 3.5	16
SPP20N60CFD	SP000014475	SPP20N60CFDHKSA1	TO-220	600	220	3.0 ... 5.0	20.7
SPP20N60CFD	SP000681060	SPP20N60CFDXKSA1	TO-220	600	220	3.0 ... 5.0	20.7
IPP60R250CP	SP000358136	IPP60R250CPXKSA1	TO-220	600	250	2.5 ... 3.5	12
SPP15N60C3	SP000014527	SPP15N60C3HKSA1	TO-220	600	280	2.1 ... 3.9	15
SPP15N60C3	SP000681050	SPP15N60C3XKSA1	TO-220	600	280	2.1 ... 3.9	15
IPP60R299CP	SP000084280	IPP60R250CPXKSA1	TO-220	600	299	2.5 ... 3.5	11
SPP15N60CFD	SP000264425	SPP15N60CFDHKSA1	TO-220	600	330	3.0 ... 5.0	13.4
SPP15N60CFD	SP000681052	SPP15N60CFDXKSA1	TO-220	600	330	3.0 ... 5.0	13.4
SPP11N60C3	SP000013526	SPP11N60C3HKSA1	TO-220	600	380	2.1 ... 3.9	11
SPP11N60C3	SP000681040	SPP11N60C3XKSA1	TO-220	600	380	2.1 ... 3.9	11
IPP60R385CP	SP000082281	IPP60R385CPXKSA1	TO-220	600	385	2.5 ... 3.5	9.0
SPP11N60CFD	SP000014533	SPP11N60CFDHKSA1	TO-220	600	385	3.0 ... 5.0	11
SPP11N60CFD	SP000681042	SPP11N60CFDXKSA1	TO-220	600	385	3.0 ... 5.0	11
IPP60R520CP	SP000405860	IPP60R520CPAKSA1	TO-220	600	520	2.5 ... 3.5	6.8
IPP60R600CP	SP000405888	IPP60R600CPAKSA1	TO-220	600	600	2.5 ... 3.5	6.1

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

## N-Channel MOSFETs

### 600 V (cont'd)

SPP07N60C3	SP000013525	SPP07N60C3HKSA1	TO-220	600	440	2.1 ... 3.9	11
SPP07N60C3	SP000681030	SPP07N60C3XKSA1	TO-220	600	440	2.1 ... 3.9	11
SPP07N60CFD	SP000264424	SPP07N60CFDHKSA1	TO-220	600	600	3.0 ... 5.0	7.3
SPP07N60CFD	SP000681032	SPP07N60CFDXKSA1	TO-220	600	600	3.0 ... 5.0	7.3
SPP06N60C3	SP000014697	SPP06N60C3HKSA1	TO-220	600	600	2.1 ... 3.9	7.3
SPP06N60C3	SP000681028	SPP06N60C3XKSA1	TO-220	600	600	2.1 ... 3.9	7.3
SPP04N60C3	SP000013534	SPP04N60C3HKSA1	TO-220	600	720	2.1 ... 3.9	7.2
SPP03N60C3	SP000013524	SPP03N60C3HKSA1	TO-220	600	750	2.1 ... 3.9	6.2
SPP03N60C3	SP000681018	SPP03N60C3XKSA1	TO-220	600	750	2.1 ... 3.9	6.2
SPP02N60C3	SP000013523	SPP02N60C3HKSA1	TO-220	600	950	2.1 ... 3.9	4.5
SPP02N60C3	SP000681014	SPP02N60C3XKSA1	TO-220	600	950	2.1 ... 3.9	4.5
SPS04N60C3	SP000307419	SPS04N60C3BKMA1	IPAK SL	600	950	2.1 ... 3.9	4.5
SPS03N60C3	SP000307418	SPS03N60C3BKMA1	IPAK SL	600	1400	2.1 ... 3.9	3.2
SPS02N60C3	SP000307410	SPS02N60C3BKMA1	IPAK SL	600	3000	2.1 ... 3.9	1.8
SPS01N60C3	SP000307396	SPS01N60C3BKMA1	IPAK SL	600	6000	2.1 ... 3.9	0.8
SPU07N60C3	SP000101635	SPU07N60C3BKMA1	IPAK	600	600	2.1 ... 3.9	7.3
SPU04N60C3	SP000095850	SPU04N60C3BKMA1	IPAK	600	950	2.1 ... 3.9	4.5
SPU03N60C3	SP000095849	SPU03N60C3BKMA1	IPAK	600	1400	2.1 ... 3.9	3.2
SPU02N60C3	SP000015064	SPU02N60C3BKMA1	IPAK	600	3000	2.1 ... 3.9	1.8
SPU01N60C3	SP000012110	SPU01N60C3BKMA1	IPAK	600	6000	2.1 ... 3.9	0.8
IPW60R045CP	SP000067149	IPW60R045CPFKSA1	TO-247	600	45	2.5 ... 3.5	60
SPW47N60C3	SP000013953	SPW47N60C3CKSA1	TO-247	600	70	2.1 ... 3.9	47
IPW60R075CP	SP000358192	IPW60R075CPFKSA1	TO-247	600	75	2.5 ... 3.5	39
SPW47N60CFD	SP000065376	SPW47N60CFDFKSA1	TO-247	600	80	3.0 ... 5.0	46
IPW60R099CP	SP000067147	IPW60R099CPFKSA1	TO-247	600	99	2.5 ... 3.5	31
SPW35N60C3	SP000014970	SPW35N60C3FKSA1	TO-247	600	100	2.1 ... 3.9	34.6
SPW35N60CFD	SP000065487	SPW35N60CFDFKSA1	TO-247	600	115	3.0 ... 5.0	34.1
IPW60R125CP	SP000088489	IPW60R125CPFKSA1	TO-247	600	125	2.5 ... 3.5	25
SPW24N60C3	SP000014695	SPW24N60C3CKSA1	TO-247	600	160	2.1 ... 3.9	24.3
IPW60R165CP	SP000095483	IPW60R165CPCCKSA1	TO-247	600	165	2.5 ... 3.5	21
SPW24N60CFD	SP000264428	SPW24N60CFDFKSA1	TO-247	600	185	3.0 ... 5.0	21.7
SPW20N60C3	SP000013729	SPW20N60C3CKSA1	TO-247	600	190	2.1 ... 3.9	20.7
IPW60R199CP	SP000089802	IPW60R199CPFKSA1	TO-247	600	199	2.5 ... 3.5	16
SPW20N60CFD	SP000014535	SPW20N60CFDFKSA1	TO-247	600	220	3.0 ... 5.0	20.7
IPW60R250CP	SP000310511	IPW60R250CPFKSA1	TO-247	600	250	2.5 ... 3.5	12
SPW15N60C3	SP000014530	SPW15N60C3FKSA1	TO-247	600	280	2.1 ... 3.9	15
IPW60R299CP	SP000103251	IPW60R299CPFKSA1	TO-247	600	299	2.5 ... 3.5	11
SPW15N60CFD	SP000264429	SPW15N60CFDFKSA1	TO-247	600	330	3.0 ... 5.0	13.4
SPW11N60C3	SP000013728	SPW11N60C3CKSA1	TO-247	600	380	2.1 ... 3.9	11
SPW11N60CFD	SP000014534	SPW11N60CFDFKSA1	TO-247	600	440	3.0 ... 5.0	11
SPW07N60CFD	SP000264430	SPW07N60CFDFKSA1	TO-247	600	700	3.0 ... 5.0	6.6
BSS127	SP000705718	BSS127H6327XTSA1	SOT23	600	500000	1.4 ... 2.6	0.023
BSS225	SP000095776	BSS225L6327HTSA1	SOT89	600	45000	1.3 ... 2.3	0.09

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on) max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

## N-Channel MOSFETs

600 V  
C6 Series

IPA60R099C6	SP000658000	IPA60R099C6XKSA1	TO-220 FullPAK	600	99	2.5 ... 3.5	38
IPA60R125C6	SP000685848	IPA60R125C6XKSA1	TO-220 FullPAK	600	125	2.5 ... 3.5	30
IPA60R160C6	SP000652794	IPA60R160C6XKSA1	TO-220 FullPAK	600	160	2.5 ... 3.5	23.8
IPA60R190C6	SP000621152	IPA60R190C6XKSA1	TO-220 FullPAK	600	190	2.5 ... 3.5	20.2
IPA60R280C6	SP000645030	IPA60R280C6XKSA1	TO-220 FullPAK	600	280	2.5 ... 3.5	13.8
IPA60R380C6	SP000660632	IPA60R380C6XKSA1	TO-220 FullPAK	600	380	2.5 ... 3.5	10.6
IPA60R520C6	SP000645072	IPA60R520C6XKSA1	TO-220 FullPAK	600	520	2.5 ... 3.5	8.1
IPA60R600C6	SP000660624	IPA60R600C6XKSA1	TO-220 FullPAK	600	600	2.5 ... 3.5	7.3
IPA60R950C6	SP000629360	IPA60R950C6XKSA1	TO-220 FullPAK	600	950	2.5 ... 3.5	4.4
IPB60R099C6	SP000687468	IPB60R099C6ATMA1	D <sup>2</sup> PAK	600	99	2.5 ... 3.5	38
IPB60R125C6	SP000687456	IPB60R125C6ATMA1	D <sup>2</sup> PAK	600	125	2.5 ... 3.5	30
IPB60R160C6	SP000687552	IPB60R160C6ATMA1	D <sup>2</sup> PAK	600	160	2.5 ... 3.5	23.8
IPB60R190C6	SP000641916	IPB60R190C6ATMA1	D <sup>2</sup> PAK	600	190	2.5 ... 3.5	20.2
IPB60R280C6	SP000687550	IPB60R280C6ATMA1	D <sup>2</sup> PAK	600	280	2.5 ... 3.5	13.8
IPB60R380C6	SP000660634	IPB60R380C6ATMA1	D <sup>2</sup> PAK	600	380	2.5 ... 3.5	10.6
IPB60R600C6	SP000660626	IPB60R600C6ATMA1	D <sup>2</sup> PAK	600	600	2.5 ... 3.5	7.3
IPB60R950C6	SP000660620	IPB60R950C6ATMA1	D <sup>2</sup> PAK	600	950	2.5 ... 3.5	4.4
IPD60R380C6	SP000660628	IPD60R380C6BTMA1	DPAK	600	380	2.5 ... 3.5	10.6
IPD60R520C6	SP000645070	IPD60R520C6BTMA1	DPAK	600	520	2.5 ... 3.5	8.1
IPD60R600C6	SP000660622	IPD60R600C6BTMA1	DPAK	600	600	2.5 ... 3.5	7.3
IPD60R950C6	SP000629368	IPD60R950C6BTMA1	DPAK	600	950	2.5 ... 3.5	12
IPD60R1K4C6	SP000799134	IPD60R1K4C6BTMA1	DPAK	600	1400	2.5 ... 3.5	3.2
IPD60R2K0C6	SP000799132	IPD60R2K0C6BTMA1	DPAK	600	2000	2.5 ... 3.5	2.4
IPD60R3K3C6	SP000799130	IPD60R3K3C6BTMA1	DPAK	600	3300	2.5 ... 3.5	1.7
IPI60R190C6	SP000660618	IPI60R190C6XKSA1	I <sup>2</sup> PAK	600	190	2.5 ... 3.5	20.2
IPI60R280C6	SP000687554	IPI60R280C6XKSA1	I <sup>2</sup> PAK	600	280	2.5 ... 3.5	10.6
IPI60R380C6	SP000660630	IPI60R380C6XKSA1	I <sup>2</sup> PAK	600	380	2.5 ... 3.5	10.6
▼ IPP60R074C6	SP000898652	IPP60R074C6XKSA1	TO-220	600	74	2.5 ... 3.5	57.7
IPP60R099C6	SP000687556	IPP60R099C6XKSA1	TO-220	600	99	2.5 ... 3.5	38
IPP60R125C6	SP000685844	IPP60R125C6XKSA1	TO-220	600	125	2.5 ... 3.5	30
IPP60R160C6	SP000652796	IPP60R160C6XKSA1	TO-220	600	160	2.5 ... 3.5	23.8
IPP60R190C6	SP000621158	IPP60R190C6XKSA1	TO-220	600	190	2.5 ... 3.5	20.2
IPP60R280C6	SP000645028	IPP60R280C6XKSA1	TO-220	600	280	2.5 ... 3.5	13.8
IPP60R380C6	SP000645062	IPP60R380C6XKSA1	TO-220	600	380	2.5 ... 3.5	10.6
IPP60R520C6	SP000645068	IPP60R520C6XKSA1	TO-220	600	520	2.5 ... 3.5	8.1
IPP60R600C6	SP000645074	IPP60R600C6XKSA1	TO-220	600	600	2.5 ... 3.5	7.3
IPP60R950C6	SP000629364	IPP60R950C6XKSA1	TO-220	600	950	2.5 ... 3.5	4.4
▼ IPW60R041C6	SP000718886	IPW60R041C6FKSA1	TO-247	600	41	2.5 ... 3.5	77.5
IPW60R070C6	SP000645060	IPW60R070C6FKSA1	TO-247	600	70	2.5 ... 3.5	53
IPW60R099C6	SP000641908	IPW60R099C6FKSA1	TO-247	600	99	2.5 ... 3.5	38
IPW60R125C6	SP000641912	IPW60R125C6FKSA1	TO-247	600	125	2.5 ... 3.5	30
IPW60R160C6	SP000652798	IPW60R160C6FKSA1	TO-247	600	160	2.5 ... 3.5	23.8
IPW60R190C6	SP000621160	IPW60R190C6FKSA1	TO-247	600	190	2.5 ... 3.5	20.2
IPW60R280C6	SP000645032	IPW60R280C6FKSA1	TO-247	600	280	2.5 ... 3.5	13.8
▼ IPU60R600C6	SP000931534	IPU60R600C6BKMA1	IPAK	600	600	2.5 ... 3.5	7.3
▼ IPU60R950C6	SP000931532	IPU60R950C6BKMA1	IPAK	600	950	2.5 ... 3.5	4.4
▼ IPU60R1K4C6	SP000931530	IPU60R1K4C6BKMA1	IPAK	600	1400	2.5 ... 3.5	3.2
▼ IPU60R2K0C6	SP000931528	IPU60R2K0C6BKMA1	IPAK	600	2000	2.5 ... 3.5	2.4

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$

## N-Channel MOSFETs

### 600 V E6 Series

IPA60R190E6	SP000797380	IPA60R190E6XKSA1	TO-220 FullPAK	600	190	2.5 ... 3.5	20.2
IPA60R280E6	SP000797292	IPA60R280E6XKSA1	TO-220 FullPAK	600	280	2.5 ... 3.5	13.8
IPA60R380E6	SP000795300	IPA60R380E6XKSA1	TO-220 FullPAK	600	380	2.5 ... 3.5	10.6
IPA60R450E6	SP000842484	IPA60R450E6XKSA1	TO-220 FullPAK	600	450	2.5 ... 3.5	9.2
IPA60R520E6	SP000797614	IPA60R520E6XKSA1	TO-220 FullPAK	600	520	2.5 ... 3.5	8.1
IPA60R600E6	SP000797298	IPA60R600E6XKSA1	TO-220 FullPAK	600	600	2.5 ... 3.5	7.3
IPA60R750E6	SP000842480	IPA60R750E6XKSA1	TO-220 FullPAK	600	750	2.5 ... 3.5	5.7
IPD60R450E6	SP000801092	IPD60R450E6BTMA1	DPAK	600	450	2.5 ... 3.5	9.2
▼ IPD60R600E6	SP000797374	IPD60R600E6BTMA1	DPAK	600	600	2.5 ... 3.5	7.3
IPD60R750E6	SP000801094	IPD60R750E6BTMA1	DPAK	600	750	2.5 ... 3.5	5.7
IPP60R190E6	SP000797378	IPP60R190E6XKSA1	TO-220	600	190	2.5 ... 3.5	20.2
IPP60R280E6	SP000797290	IPP60R280E6XKSA1	TO-220	600	280	2.5 ... 3.5	13.8
IPP60R380E6	SP000795310	IPP60R380E6XKSA1	TO-220	600	380	2.5 ... 3.5	10.6
IPP60R450E6	SP000842486	IPP60R450E6XKSA1	TO-220	600	450	2.5 ... 3.5	9.2
IPP60R520E6	SP000797294	IPP60R520E6XKSA1	TO-220	600	520	2.5 ... 3.5	8.1
IPP60R600E6	SP000797630	IPP60R600E6XKSA1	TO-220	600	600	2.5 ... 3.5	7.3
IPP60R750E6	SP000842482	IPP60R750E6XKSA1	TO-220	600	750	2.5 ... 3.5	5.7
IPW60R190E6	SP000797384	IPW60R190E6FKSA1	TO-247	600	190	2.5 ... 3.5	20.2
IPW60R280E6	SP000797382	IPW60R280E6FKSA1	TO-247	600	280	2.5 ... 3.5	13.8

### 650 V

SPA20N65C3	SP000216362	SPA20N65C3XKSA1	TO-220 FullPAK	650	190	2.1 ... 3.9	20.7
SPA15N65C3	SP000293730	SPA15N65C3XKSA1	TO-220 FullPAK	650	280	2.1 ... 3.9	15
SPA11N65C3	SP000216318	SPA11N65C3XKSA1	TO-220 FullPAK	650	380	2.1 ... 3.9	11
SPA07N65C3	SP000216305	SPA07N65C3XKSA1	TO-220 FullPAK	650	600	2.1 ... 3.9	7.3
SPI20N65C3	SP000014525	SPI20N65C3HKSA1	I <sup>2</sup> PAK	650	190	2.1 ... 3.9	20.7
SPI20N65C3	SP000681010	SPI20N65C3XKSA1	I <sup>2</sup> PAK	650	190	2.1 ... 3.9	20.7
SPI15N65C3	SP000294825	SPI15N65C3HKSA1	I <sup>2</sup> PAK	650	280	2.1 ... 3.9	15
SPI15N65C3	SP000681002	SPI15N65C3XKSA1	I <sup>2</sup> PAK	650	280	2.1 ... 3.9	15
SPI11N65C3	SP000014526	SPI11N65C3HKSA1	I <sup>2</sup> PAK	650	380	2.1 ... 3.9	11
SPI11N65C3	SP000680994	SPI11N65C3XKSA1	I <sup>2</sup> PAK	650	380	2.1 ... 3.9	11
SPI07N65C3	SP000014632	SPI07N65C3HKSA1	I <sup>2</sup> PAK	650	600	2.1 ... 3.9	7.3
SPI07N65C3	SP000680982	SPI07N65C3XKSA1	I <sup>2</sup> PAK	650	600	2.1 ... 3.9	7.3
SPP20N65C3	SP000014369	SPP20N65C3HKSA1	TO-220	650	190	2.1 ... 3.9	20.7
SPP20N65C3	SP000681064	SPP20N65C3XKSA1	TO-220	650	190	2.1 ... 3.9	20.7
SPP15N65C3	SP000294824	SPP15N65C3HKSA1	TO-220	650	280	2.1 ... 3.9	15
SPP15N65C3	SP000681054	SPP15N65C3XKSA1	TO-220	650	280	2.1 ... 3.9	15
SPP11N65C3	SP000014371	SPP11N65C3HKSA1	TO-220	650	380	2.1 ... 3.9	11
SPP11N65C3	SP000681046	SPP11N65C3XKSA1	TO-220	650	380	2.1 ... 3.9	11
SPP07N65C3	SP000014631	SPP07N65C3HKSA1	TO-220	650	600	2.1 ... 3.9	7.3
SPP07N65C3	SP000681036	SPP07N65C3XKSA1	TO-220	650	600	2.1 ... 3.9	7.3
SPW47N65C3	SP000274751	SPW47N65C3FKSA1	TO-247	650	70	2.1 ... 3.9	47
SPI11N65C3	SP000014526	SPI11N65C3HKSA1	I <sup>2</sup> PAK	650	380	2.1 ... 3.9	11
SPI11N65C3	SP000680994	SPI11N65C3XKSA1	I <sup>2</sup> PAK	650	380	2.1 ... 3.9	11
SPI07N65C3	SP000014632	SPI07N65C3HKSA1	I <sup>2</sup> PAK	650	600	2.1 ... 3.9	7.3
SPI07N65C3	SP000680982	SPI07N65C3XKSA1	I <sup>2</sup> PAK	650	600	2.1 ... 3.9	7.3

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)max}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

**N-Channel MOSFETs****650 V**  
(cont'd)

SPP20N65C3	SP000014369	SPP20N65C3HKSA1	TO-220	650	190	2.1 ... 3.9	20.7
SPP20N65C3	SP000681064	SPP20N65C3XKSA1	TO-220	650	190	2.1 ... 3.9	20.7
SPP15N65C3	SP000294824	SPP15N65C3HKSA1	TO-220	650	280	2.1 ... 3.9	15
SPP15N65C3	SP000681054	SPP15N65C3XKSA1	TO-220	650	280	2.1 ... 3.9	15
SPP11N65C3	SP000014371	SPP11N65C3BKSA1	TO-220	650	380	2.1 ... 3.9	11
SPP11N65C3	SP000681046	SPP11N65C3XKSA1	TO-220	650	380	2.1 ... 3.9	11
SPP07N65C3	SP000014631	SPP07N65C3HKSA1	TO-220	650	600	2.1 ... 3.9	7.3
SPP07N65C3	SP000681036	SPP07N65C3XKSA1	TO-220	650	600	2.1 ... 3.9	7.3
SPW47N65C3	SP000274751	SPW47N65C3FKSA1	TO-247	650	70	2.1 ... 3.9	47

**650 V**  
**CFD Series**

▼ IPA65R110CFD	SP000895230	IPA65R110CFDXKSA1	TO-220 FullPAK	650	110	3.5... 4.5	31.2
▼ IPA65R150CFD	SP000907026	IPA65R150CFDXKSA1	TO-220 FullPAK	650	150	3.5... 4.5	22.4
▼ IPA65R190CFD	SP000905382	IPA65R190CFDXKSA1	TO-220 FullPAK	650	190	3.5... 4.5	17.5
▼ IPA65R310CFD	SP000890320	IPA65R190CFDXKSA1	TO-220 FullPAK	650	310	3.5... 4.5	11.4
▼ IPA65R420CFD	SP000890322	IPA65R420CFDXKSA1	TO-220 FullPAK	650	420	3.5... 4.5	8.7
▼ IPA65R660CFD	SP000838284	IPA65R660CFDXKSA1	TO-220 FullPAK	650	660	3.5... 4.5	6.0
▼ IPB65R110CFD	SP000896400	IPB65R110CFDATMA1	D <sup>2</sup> PAK	650	110	3.5... 4.5	31.2
▼ IPB65R150CFD	SP000907034	IPB65R150CFDATMA1	D <sup>2</sup> PAK	650	150	3.5... 4.5	22.4
▼ IPB65R190CFD	SP000905378	IPB65R190CFDATMA1	D <sup>2</sup> PAK	650	190	3.5... 4.5	17.5
▼ IPB65R310CFD	SP000745032	IPB65R310CFDATMA1	D <sup>2</sup> PAK	650	310	3.5... 4.5	11.4
▼ IPB65R420CFD	SP000890680	IPB65R420CFDATMA1	D <sup>2</sup> PAK	650	420	3.5... 4.5	8.7
▼ IPB65R660CFD	SP000881698	IPB65R660CFDATMA1	D <sup>2</sup> PAK	650	660	3.5... 4.5	6.0
▼ IPD65R420CFD	SP000891704	IPD65R420CFDBTMA1	DPAK	650	420	3.5... 4.5	8.7
▼ IPD65R660CFD	SP000745024	IPD65R660CFDBTMA1	DPAK	650	660	3.5... 4.5	6.0
▼ IPI65R110CFD	SP000896398	IPI65R110CFDXKSA1	I <sup>2</sup> PAK	650	110	3.5... 4.5	31.2
▼ IPI65R150CFD	SP000907028	IPI65R150CFDXKSA1	I <sup>2</sup> PAK	650	150	3.5... 4.5	22.4
▼ IPI65R190CFD	SP000905386	IPI65R190CFDXKSA1	I <sup>2</sup> PAK	650	190	3.5... 4.5	17.5
▼ IPI65R310CFD	SP000891700	IPI65R310CFDXKSA1	I <sup>2</sup> PAK	650	310	3.5... 4.5	11.4
▼ IPI65R420CFD	SP000891702	IPI65R420CFDXKSA1	I <sup>2</sup> PAK	650	420	3.5... 4.5	8.7
▼ IPI65R660CFD	SP000861696	IPI65R660CFDXKSA1	I <sup>2</sup> PAK	650	660	3.5... 4.5	6.0
▼ IPP65R110CFD	SP000895226	IPP65R110CFDXKSA1	TO-220	650	110	3.5... 4.5	31.2
▼ IPP65R150CFD	SP000907024	IPP65R150CFDXKSA1	TO-220	650	150	3.5... 4.5	22.4
▼ IPP65R190CFD	SP000881160	IPP65R190CFDXKSA1	TO-220	650	190	3.5... 4.5	17.5
▼ IPP65R310CFD	SP000745028	IPP65R310CFDXKSA1	TO-220	650	310	3.5... 4.5	11.4
▼ IPP65R420CFD	SP000876824	IPP65R420CFDXKSA1	TO-220	650	420	3.5... 4.5	8.7
▼ IPP65R660CFD	SP000745026	IPP65R660CFDXKSA1	TO-220	650	660	3.5... 4.5	6.0
▼ IPW65R041CFD	SP000756288	IPW65R041CFDFKSA1	TO-247	650	41	3.5... 4.5	68.5
▼ IPW65R080CFD	SP000745036	IPW65R080CFDFKSA1	TO-247	650	80	3.5... 4.5	43.3
▼ IPW65R110CFD	SP000895232	IPW65R110CFDFKSA1	TO-247	650	110	3.5... 4.5	31.2
▼ IPW65R150CFD	SP000905376	IPW65R190CFDFKSA1	TO-247	650	150	3.5... 4.5	22.4
▼ IPW65R190CFD	SP000881160	IPP65R190CFDXKSA1	TO-247	650	190	3.5... 4.5	17.5
▼ IPW65R310CFD	SP000890688	IPW65R310CFDFKSA1	TO-247	650	310	3.5... 4.5	11.4
▼ IPW65R420CFD	SP000890686	IPW65R420CFDFKSA1	TO-247	650	420	3.5... 4.5	8.7
▼ IPW65R660CFD	SP000861700	IPW65R660CFDFKSA1	TO-247	650	660	3.5... 4.5	6.0

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)max}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

## N-Channel MOSFETs

### 650 V

#### C6 Series

IPA65R190C6	SP000863892	IPA65R190C6XKSA1	TO-220 FullIPAK	650	190	2.5 ... 3.5	20.2
IPA65R280C6	SP000720898	IPA65R280C6XKSA1	TO-220 FullIPAK	650	280	2.5 ... 3.5	13.8
IPA65R380C6	SP000720896	IPA65R380C6XKSA1	TO-220 FullIPAK	650	380	2.5 ... 3.5	10.6
IPA65R600C6	SP000850502	IPA65R600C6XKSA1	TO-220 FullIPAK	650	600	2.5 ... 3.5	7.3
IPB65R190C6	SP000863890	IPB65R190C6ATMA1	D <sup>2</sup> PAK	650	190	2.5 ... 3.5	20.2
IPB65R280C6	SP000745030	IPB65R280C6ATMA1	D <sup>2</sup> PAK	650	280	2.5 ... 3.5	13.8
IPB65R380C6	SP000785084	IPB65R380C6ATMA1	D <sup>2</sup> PAK	650	380	2.5 ... 3.5	10.6
IPB65R600C6	SP000794382	IPB65R600C6ATMA1	D <sup>2</sup> PAK	650	600	2.5 ... 3.5	7.3
▼ IPD65R250C6	SP000898654	IPD65R250C6XTMA1	DPAK	650	250	2.5 ... 3.5	16.1
IPD65R380C6	SP000745022	IPD65R380C6BTMA1	DPAK	650	380	2.5 ... 3.5	10.6
IPD65R600C6	SP000745020	IPD65R600C6BTMA1	DPAK	650	600	2.5 ... 3.5	7.3
IPI65R190C6	SP000863900	IPI65R190C6XKSA1	I <sup>2</sup> PAK	650	190	2.5 ... 3.5	20.2
IPI65R280C6	SP000785056	IPI65R280C6XKSA1	I <sup>2</sup> PAK	650	280	2.5 ... 3.5	13.8
IPI65R380C6	SP000785080	IPI65R380C6XKSA1	I <sup>2</sup> PAK	650	380	2.5 ... 3.5	10.6
IPI65R600C6	SP000850504	IPI65R600C6XKSA1	I <sup>2</sup> PAK	650	600	2.5 ... 3.5	7.3
▼ IPP65R074C6	SP000898650	IPP65R074C6XKSA1	TO-220	650	74	2.5 ... 3.5	57.7
▼ IPP65R099C6	SP000895218	IPP65R099C6XKSA1	TO-220	650	99	2.5 ... 3.5	38.0
IPP65R280C6	SP000785058	IPP65R280C6XKSA1	TO-220	650	280	2.5 ... 3.5	13.8
IPP65R380C6	SP000795082	IPP65R380C6XKSA1	TO-220	650	380	2.5 ... 3.5	10.6
IPP65R600C6	SP000661310	IPP65R600C6XKSA1	TO-220	650	600	2.5 ... 3.5	7.3
▼ IPW65R037C6	SP000756284	IPW65R037C6FKSA1	TO-247	650	37	2.5 ... 3.5	83.2
IPW65R070C6	SP000745034	IPW65R070C6FKSA1	TO-247	650	70	2.5 ... 3.5	53.5
▼ IPW65R099C6	SP000896396	IPW65R099C6FKSA1	TO-247	650	115	2.5 ... 3.5	38.0
IPW65R190C6	SP000863902	IPW65R190C6FKSA1	TO-247	600	190	2.5 ... 3.5	20.2
IPW65R280C6	SP000785060	IPW65R280C6FKSA1	TO-247	600	280	2.5 ... 3.5	13.8

### 650 V

#### E6 Series

IPA65R190E6	SP000863904	IPA65R190E6XKSA1	TO-220 FullIPAK	650	190	2.5 ... 3.5	20.2
IPA65R280E6	SP000795276	IPA65R280E6XKSA1	TO-220 FullIPAK	650	280	2.5 ... 3.5	13.8
IPA65R380E6	SP000795282	IPA65R380E6XKSA1	TO-220 FullIPAK	650	380	2.5 ... 3.5	10.6
IPA65R600E6	SP000799140	IPA65R600E6XKSA1	TO-220 FullIPAK	650	600	2.5 ... 3.5	7.3
▼ IPD65R250E6	SP000898656	IPD65R250E6XTMA1	DPAK	650	250	2.5 ... 3.5	16.1
IPD65R380E6	SP000795278	IPD65R380E6BTMA1	DPAK	650	380	2.5 ... 3.5	10.6
IPD65R600E6	SP000800216	IPD65R600E6BTMA1	DPAK	650	600	2.5 ... 3.5	7.3
IPP65R280E6	SP000795268	IPP65R280E6XKSA1	TO-220	650	280	2.5 ... 3.5	13.8
IPP65R380E6	SP000795080	IPP65R380E6XKSA1	TO-220	650	380	2.5 ... 3.5	10.6
IPP65R600E6	SP000850500	IPP65R600E6XKSA1	TO-220	650	600	2.5 ... 3.5	7.3
IPW65R280E6	SP000795272	IPW65R280E6FKSA1	TO-247	600	280	2.5 ... 3.5	13.8

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on) max}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

## N-Channel MOSFETs

## 800 V

BSP300	SP000089201	BSP300L6327HUSA1	SOT223	800	20	2.1 ... 4.0	0.19
SPA17N80C3	SP000216353	SPA17N80C3XKSA1	TO-220 FullPAK	800	290	2.1 ... 3.9	17
SPA11N80C3	SP000216320	SPA11N80C3XKSA1	TO-220 FullPAK	800	450	2.1 ... 3.9	11
SPA08N80C3	SP000216310	SPA08N80C3XKSA1	TO-220 FullPAK	800	650	2.1 ... 3.9	8
SPA06N80C3	SP000216302	SPA06N80C3XKSA1	TO-220 FullPAK	800	900	2.1 ... 3.9	6
SPA04N80C3	SP000216300	SPA04N80C3XKSA1	TO-220 FullPAK	800	1300	2.1 ... 3.9	4
SPA02N80C3	SP000216295	SPA02N80C3XKSA1	TO-220 FullPAK	800	2700	2.1 ... 3.9	2
SPB17N80C3	SP000013370	SPB17N80C3ATMA1	D <sup>2</sup> PAK	800	290	2.1 ... 3.9	17
SPD06N80C3	SP000318350	SPD06N80C3BTMA1	DPAK	800	900	2.1 ... 3.9	6
SPD04N80C3	SP000315410	SPD04N80C3BTMA1	DPAK	800	1300	2.1 ... 3.9	4
SPD02N80C3	SP000315409	SPD02N80C3BTMA1	DPAK	800	2700	2.1 ... 3.9	2
SPI08N80C3	SP000683148	SPI08N80C3XKSA1	I <sup>2</sup> PAK	800	650	2.1 ... 3.9	8
SPP17N80C3	SP000683164	SPP17N80C3XKSA1	TO-220	800	290	2.1 ... 3.9	17
SPP11N80C3	SP000683158	SPP11N80C3XKSA1	TO-220	800	450	2.1 ... 3.9	11
SPP08N80C3	SP000683156	SPP08N80C3XKSA1	TO-220	800	650	2.1 ... 3.9	8
SPP06N80C3	SP000683154	SPP06N80C3XKSA1	TO-220	800	900	2.1 ... 3.9	6
SPP04N80C3	SP000683152	SPP04N80C3XKSA1	TO-220	800	1300	2.1 ... 3.9	4
SPP02N80C3	SP000683150	SPP02N80C3XKSA1	TO-220	800	2700	2.1 ... 3.9	2
▼ SPW55N80C3	SP000849356	SPW55N80C3FKSA1	TO-247	800	85	2.1 ... 3.9	54.9
SPW17N80C3	SP000013369	SPW17N80C3CKSA1	TO-247	800	290	2.1 ... 3.9	17
SPW11N80C3	SP000013703	SPW11N80C3CKSA1	TO-247	800	450	2.1 ... 3.9	11

## 900 V

IPA90R340C3	SP000415916	IPA90R340C3XKSA1	TO-220 FullPAK	900	340	2.5 ... 3.5	15
IPA90R500C3	SP000413716	IPA90R500C3XKSA1	TO-220 FullPAK	900	500	2.5 ... 3.5	10
IPA90R800C3	SP000413718	IPA90R800C3XKSA1	TO-220 FullPAK	900	800	2.5 ... 3.5	6.9
IPA90R1K0C3	SP000413712	IPA90R1K0C3XKSA1	TO-220 FullPAK	900	1000	2.5 ... 3.5	5.7
IPA90R1K2C3	SP000413714	IPA90R1K2C3XKSA1	TO-220 FullPAK	900	1200	2.5 ... 3.5	5.1
IPD90R1K2C3	SP000413720	IPD90R1K2C3BTMA1	DPAK	900	1200	2.5 ... 3.5	5.1
IPI90R340C3	SP000683082	IPI90R340C3XKSA1	I <sup>2</sup> PAK	900	340	2.5 ... 3.5	15
IPI90R500C3	SP000683084	IPI90R500C3XKSA1	I <sup>2</sup> PAK	900	500	2.5 ... 3.5	10
IPI90R800C3	SP000683086	IPI90R800C3XKSA1	I <sup>2</sup> PAK	900	800	2.5 ... 3.5	6.7
IPI90R1K0C3	SP000683078	IPI90R1K0C3XKSA1	I <sup>2</sup> PAK	900	1000	2.5 ... 3.5	5.7
IPI90R1K2C3	SP000683080	IPI90R1K2C3XKSA1	I <sup>2</sup> PAK	900	1200	2.5 ... 3.5	5.1
IPP90R340C3	SP000683098	IPP90R340C3XKSA1	TO-220	900	340	2.5 ... 3.5	15
IPP90R500C3	SP000683100	IPP90R500C3XKSA1	TO-220	900	500	2.5 ... 3.5	10
IPP90R800C3	SP000683102	IPP90R800C3XKSA1	TO-220	900	800	2.5 ... 3.5	6.7
IPP90R1K0C3	SP000683094	IPP90R1K0C3XKSA1	TO-220	900	1000	2.5 ... 3.5	5.7
IPP90R2K2C3	SP000683096	IPP90R1K2C3XKSA1	TO-220	900	1200	2.5 ... 3.5	5.1
IPW90R120C3	SP000413750	IPW90R120C3FKSA1	TO-247	900	120	2.5 ... 3.5	36
IPW90R340C3	SP000411306	IPW90R340C3FKSA1	TO-247	900	340	2.5 ... 3.5	15
IPW90R500C3	SP000413756	IPW90R500C3FKSA1	TO-247	900	500	2.5 ... 3.5	10
IPW90R800C3	SP000413758	IPW90R800C3FKSA1	TO-247	900	800	2.5 ... 3.5	6.7
IPW90R1K0C3	SP000413752	IPW90R1K0C3FKSA1	TO-247	900	1000	2.5 ... 3.5	5.8
IPW90R1K2C3	SP000413754	IPW90R1K2C3FKSA1	TO-247	900	1200	2.5 ... 3.5	5.1

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)}$ mΩ	$V_{GS(th)}$ V	$I_D$ A

## P-Channel MOSFETs

### 250 V

BSP317P	SP000089220	BSP317PL6327HTSA1	SOT223	-250	4000	-2.0 ... -1.0	-0.43
BSP92P	SP000089223	BSP92PL6327HTSA1	SOT223	-250	12000	-2.0 ... -1.0	-0.26
BSR92P	SP000265408	BSR92PL6327HTSA1	SC59	-250	11000	-2.0 ... -1.0	-0.14
BSS192P	SP000095795	BSS192PL6327HTSA1	SOT89	-250	12000	-2.0 ... -0.8	-0.19

### 100 V

BSP322P	SP000212229	BSP322PL6327HTSA1	SOT223	-100	800	-2.0 ... -1.0	-1.0
BSP321P	SP000212228	BSP321PL6327HTSA1	SOT223	-100	900	-4.0 ... -2.1	-0.98
BSP316P	SP000089222	BSP316PL6327HTSA1	SOT223	-100	1800	-2.0 ... -1.0	-0.68
BSR316P	SP000265407	BSR316PL6327HTSA1	SC59	-100	1800	-2.0 ... -1.0	-0.36
SPD15P10PL G	SP000317393	SPD15P10PLGBTMA1	DKPAK	-100	200	-2.0 ... -1.0	-15
SPD15P10P G	SP000212233	SPD15P10PGBTMA1	DKPAK	-100	240	-4.0 ... -2.1	-15
SPD04P10PL G	SP000212231	SPD04P10PLGBTMA1	DKPAK	-100	850	-2.0 ... -1.0	-4.2
SPD04P10P G	SP000212230	SPD04P10PGBTMA1	DKPAK	-100	1000	-4.0 ... -2.1	-4.0
SPP15P10PL H	SP000683162	SPP15P10PLHXKSA1	TO-220	-100	200	-2.0 ... -1.0	-15
SPP15P10P H	SP000683160	SPP15P10PHXKSA1	TO-220	-100	240	-4.0 ... -2.1	-15

### 60 V

BSO613SPV G	SP000216309	BSO613SPVGHUMA1	SO-8	-60	130	-4.0 ... -2.1	-3.44
BSP613P	SP000089224	BSP613PL6327HUSA1	SOT223	-60	130	-4.0 ... -2.1	-2.9
BSP170P	SP000089225	BSP170PL6327HTSA1	SOT223	-60	300	-4.0 ... -2.1	-1.9
BSP171P	SP000089226	BSP171PL6327HTSA1	SOT223	-60	300	-2.0 ... -1.0	-1.9
BSP315P	SP000089221	BSP315PL6327HTSA1	SOT223	-60	800	-2.0 ... -1.0	-1.17
BSS83P	SP000702486	BSS83PH6327XTSA1	SOT23	-60	2000	-2.0 ... -1.0	-0.33
BSS84P	SP000929186	BSS84PH6327XTSA2	SOT23	-60	8000	-2.0 ... -1.0	-0.17
BSS84P L6433	SP000924084	BSS84PH6433XTMA1	SOT23	-60	8000	-2.0 ... -1.0	-0.17
BSS84PW	SP000247312	BSS84PWL6327HTMA1	SOT323	-60	8000	-2.0 ... -1.0	-0.15
▼ BSS84PW H6327	SP000917564	BSS84PWH6327XTSA1	SOT323	-60	8000	-2.0 ... -1.0	-0.15
BSR315P	SP000265405	BSR315PL6327HTSA1	SC59	-60	800	-2.0 ... -1.0	-0.62
SPB80P06P G	SP000096088	SPB80P06PGATMA1	D <sup>2</sup> PAK	-60	23	-4.0 ... -2.1	-80
SPB18P06P G	SP000102181	SPB18P06PGATMA1	D <sup>2</sup> PAK	-60	130	-4.0 ... -2.1	-18.6
SPB08P06P G	SP000102179	SPB08P06PGATMA1	D <sup>2</sup> PAK	-60	300	-4.0 ... -2.1	-8.8
SPD30P06P G	SP000441776	SPD30P06PGBTMA1	DKPAK	-60	75	-4.0 ... -2.1	-30
SPD18P06P G	SP000443926	SPD18P06PGBTMA1	DKPAK	-60	130	-4.0 ... -2.1	-18.6
SPD09P06PL G	SP000443928	SPD09P06PLGBTMA1	DKPAK	-60	250	-2.0 ... -1.0	-9.7
SPD08P06P G	SP000450534	SPD08P06PGBTMA1	DKPAK	-60	300	-4.0 ... -2.1	-8.8
SPP80P06P H	SP000441774	SPP80P06PHXKSA1	TO-220	-60	23	-4.0 ... -2.1	-80
SPP18P06P H	SP000446906	SPP18P06PHXKSA1	TO-220	-60	130	-4.0 ... -2.1	-18.6
SPP08P06P H	SP000446908	SPP08P06PHXKSA1	TO-220	-60	300	-4.0 ... -2.1	-8.8

### 30 V

BSC030P03NS3 G	SP000442470	BSC030P03NS3GAUMA1	SuperSO8	-30	3	-3.1 ... -1.9	-100
BSC060P03NS3E G	SP000472984	BSC060P03NS3EGATMA1	SuperSO8	-30	6	-3.1 ... -1.9	-100
BSC080P03LS G	SP000359664	BSC080P03LSGAUMA1	SuperSO8	-30	8	-2.2 ... -1.0	-30
BSC084P03NS3 G	SP000473020	BSC084P03NS3GATMA1	SuperSO8	-30	8.4	-3.1 ... -1.9	-78.6
BSC084P03NS3E G	SP000473012	BSC084P03NS3EGATMA1	SuperSO8	-30	8.4	-3.0 ... -2.0	-78.6
BSC130P03LS G	SP000359666	BSC130P03LSGAUMA1	SuperSO8	-30	13	-2.2 ... -1.0	-22.5

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
				V	m $\Omega$	V	A

**P-Channel MOSFETs****30 V**  
(cont'd)

BSC200P03LS G	SP000359668	BSC200P03LGAUMA1	SuperSO8	-30	20	-2.2 ... -1.0	-12.5
BSD314SPE	SP000473008	BSD314SPEL6327HTSA1	SOT363	-30	140	-1.0 ... -2.0	-1.5
BSL307SP	SP000095798	BSL307SPL6327HTSA1	TSOP6	-30	43	-2.0 ... -1.0	-5.5
BSL308PE	SP000472978	BSL308PEL6327HTSA1	TSOP6 dual	-30	80	-2.0 ... -1.0	-2.1
BSL314PE	SP000473004	BSL314PEL6327HTSA1	TSOP6	-30	140	-1.0 ... -2.0	-1.5
BSL315P	SP000442408	BSL315PL6327HTSA1	TSOP6 dual	-30	150	-2.0 ... -1.0	-1.5
BSO080P03NS3 G	SP000472996	BSO080P03NS3GXUMA1	SO-8	-30	8	-3.1 ... -1.9	-14.8
BSO080P03NS3E G	SP000472992	BSO080P03NS3EGXUMA1	SO-8	-30	8	-3.1 ... -1.9	-14.8
BSO080P03S H	SP000613798	BSO080P03SHXUMA1	SO-8	-30	8	-2.1 ... -2.0	-1.0
BSO301SP H	SP000613796	BSO301SPHXUMA1	SO-8	-30	8	-2.0 ... -1.0	-14.9
BSO130P03S H	SP000613860	BSO130P03SHXUMA1	SO-8	-30	13	-2.2 ... -1.0	-11.3
BSO200P03S H	SP000613850	BSO200P03SHXUMA1	SO-8	-30	20	-2.2 ... -1.0	-9.1
BSO303P H	SP000613854	BSO303PHXUMA1	SO-8 dual	-30	21	-2.0 ... -1.0	-8.2
BSO303SP H	SP000613848	BSO303SPHXUMA1	SO-8	-30	21	-2.0 ... -1.0	-8.9
BSS308PE	SP000928942	BSS308PEH6327XTSA1	SOT23	-30	80	-2.0 ... -1.0	-2.1
BSS314PE	SP000928944	BSS314PEH6327XTSA1	SOT23	-30	140	-1.0 ... -2.0	-1.5
BSS315P	SP000928946	BSS315PH6327XTSA1	SOT23	-30	150	-2.0 ... -1.0	-1.5
BSZ086P03NS3 G	SP000473024	BSZ086P03NS3GATMA1	S3O8	-30	8.6	-3.1 ... -1.9	-40
BSZ086P03NS3E G	SP000473016	BSZ086P03NS3EGATMA1	S3O8	-30	8.6	-3.1 ... -1.9	-40
BSZ120P03NS3 G	SP000709736	BSZ120P03NS3GATMA1	S3O8	-30	12	-3.1 ... -1.9	-40
BSZ120P03NS3E G	SP000709730	BSZ120P03NS3EGATMA1	S3O8	-30	12	-3.1 ... -1.9	-40
BSZ180P03NS3 G	SP000709744	BSZ180P03NS3GATMA1	S3O8	-30	18	-3.1 ... -1.9	-39.6
BSZ180P03NS3E G	SP000709740	BSZ180P03NS3EGATMA1	S3O8	-30	18	-3.1 ... -1.9	-39.6
IPD042P03L3 G	SP000473922	IPD042P03L3GBTMA1	DPAK	-30	4.2	-2.0 ... -1.0	-70
IPD068P03L3 G	SP000472988	IPD068P03L3GBTMA1	DPAK	-30	6.8	-2.0 ... -1.0	-70
SPD50P03L G	SP000371908	SPD50P03LGBTMA1	DPAK 5pin	-30	7	-2.0 ... -1.0	-50

**20 V**

BSO201SP H	SP000613828	BSO201SPHXUMA1	SO-8	-20	8	-1.2 ... -0.6	-14.9
BSO203P H	SP000613858	BSO203PHXUMA1	SO-8 dual	-20	21	-1.2 ... -0.6	-8.2
BSO203SP H	SP000613856	BSO203SPHXUMA1	SO-8	-20	21	-1.2 ... -0.6	-9.0
BSO204P	SP000013487	BSO204PNTMA1	SO-8 dual	-20	30	-1.2 ... -0.6	-7.0
BSO207P H	SP000613832	BSO207PHXUMA1	SO-8 dual	-20	45	-1.2 ... -0.6	-5.7
BSO211P H	SP000613844		SO-8 dual	-20	67	-1.2 ... -0.6	-4.7
BSL207SP	SP000095796	BSL207SPL6327HTSA1	TSOP6	-20	41	-1.2 ... -0.6	-6.0
BSL211SP	SP000095797	BSL211SPL6327HTSA1	TSOP6	-20	67	-1.2 ... -0.6	-4.7
BSL215P	SP000442422	BSL215PL6327HTSA1	TSOP6 dual	-20	150	-1.2 ... -0.6	-1.5
BSS215P	SP000928938	BSS215PH6327XTSA1	SOT23	-20	150	-1.2 ... -0.6	-1.5
BSS209PW	SP000245422	BSS209PWL6327HTMA1	SOT323	-20	550	-1.2 ... -0.6	-0.58
BSS223PW	SP000245423	BSS223PWL6327HTMA1	SOT323	-20	1200	-1.2 ... -0.6	-0.39
BSS223PW	SP000843010	BSS223PWH6327XTSA1	SOT323	-20	1200	-1.2 ... -0.6	-0.39
BSV236SP	SP000245421	BSV236SPL6327HTSA1	SOT363	-20	175	-1.2 ... -0.6	-1.5
BSV236SP	SP000917672	BSV236SPH6327XTSA1	SOT363	-20	175	-1.2 ... -0.6	-1.5
BSD223P	SP000245417	BSD223PL6327HTSA1	SOT363 dual	-20	1200	-1.2 ... -0.6	-0.35

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
				V	mΩ	V	A

## Complementary MOSFETs

### 20/-20 V

BSD235C	SP000442466	BSS215PL6327HTSA1	SOT363	20	350	-1.2 ... -0.6	0.95
				-20	1200	0.7 ... 1.2	-0.53
BSD235C	SP000917610	BSD235CH6327XTSA1	SOT363	20	350	-1.2 ... -0.6	0.95
				-20	1200	0.7 ... 1.2	-0.53
BSL215C	SP000442436	BSL215CL6327HTSA1	TSOP6	20	140	0.7 ... 1.2	1.5
				-20	150	-1.2 ... -0.6	-1.5

### 30/-30 V

BSL308C	SP000473910	BSL308CL6327HTSA1	TSOP6	30	57	1.2 ... 1.6	2.3
				-30	80	-2.0 ... -1.5	-2.0
BSL316C	SP000442412	BSL316CL6327HTSA1	TSOP6	30	160	1.2 ... 2.0	1.4
				-30	150	-2.0 ... -1.0	-1.5

### 60/-60 V

BSO612CV G	SP000216307	BSO612CVGHUMA1	SO-8	60	120	2.1 ... 4.0	3
				-60	300	-4.0 ... -2.1	-2
BSO615C G	SP000216311	BSO615CGHUMA1	SO-8	60	110	1.2 ... 2.0	3.1
				-60	300	-2.0 ... -1.0	-2

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)}$	$V_{GS(th)}$	$I_D$
				V	m $\Omega$	V	A

**Depletion MOSFETs****60 V**

BSS159N	SP000919328	BSS159NH6327XTSA2	SOT23	60	8000	-3.5 ... -2.4	0.13
BSS159N H6906	SP000702636	BSS159NH6906XTSA1	SOT23	60	8000	-3.5 ... -2.4	0.13
BSS159N L6906	SP000247298	BSS159NL6906HTSA1	SOT23	60	8000	-3.5 ... -2.4	0.13

**100 V**

BSS169	SP000702572	BSS169H6327XTSA1	SOT23	100	12000	-2.9 ... -1.8	0.09
▼ BSS169 H6906	SP000702582		SOT23	100	12000	-2.9 ... -1.8	0.09
BSS169 L6906	SP000247300	BSS169L6906HTSA1	SOT23	100	12000	-2.9 ... -1.8	0.09

**200 V**

BSP149	SP000089214	BSP149L6327HTSA1	SOT223	200	3500	-2.1 ... -1.0	0.14
BSP149 L6906	SP000089215	BSP149L6906HTSA1	SOT223	200	3500	-2.1 ... -1.0	0.14

**240 V**

BSP129	SP000089218	BSP129L6327HTSA1	SOT223	240	6000	-2.1 ... -1.0	0.05
BSP129 L6906	SP000089219	BSP129L6906HTSA1	SOT223	240	6000	-2.1 ... -1.0	0.05

**250 V**

BSS139	SP000702610	BSS139H6327XTSA1	SOT23	250	30000	-2.1 ... -1.0	0.03
▼ BSS139 H6906	SP000702612		SOT23	250	30000	-2.1 ... -1.0	0.03

**600 V**

BSP135	SP000089206	BSP135L6327HTSA1	SOT223	600	6000	-2.1 ... -1.0	0.02
BSP135 L6433	SP000432430	BSP135L6433HTMA1	SOT223	600	6000	-2.1 ... -1.0	0.02
BSP135 L6906	SP000089207	BSP135L6906HTSA1	SOT223	600	6000	-2.1 ... -1.0	0.02
BSS126	SP000919334	BSS126H6327XTSA2	SOT23	600	700000	-2.7 ... -1.6	0.007
BSS126 H6906	SP000705716	BSS126H6906XTSA1	SOT23	600	700000	-2.7 ... -1.6	0.007

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{CE}$	$I_C$	$I_C$ (pulse) (max)	$V_{CE}$ (sat) (typ)
				V	A	A	V

## IGBT Power Transistors

### Fast IGBT Single Version 600 V

SGB02N60	SP000011978	SGB02N60ATMA1	D <sup>2</sup> PAK	600	2	12	2.2
SGB06N60	SP000011980	SGB06N60ATMA1	D <sup>2</sup> PAK	600	6	24	2.3
SGB10N60A	SP000013790	SGB10N60AATMA1	D <sup>2</sup> PAK	600	10	40	2.3
SGB15N60	SP000011983	SGB15N60ATMA1	D <sup>2</sup> PAK	600	15	62	2.3
SGB20N60	SP000011984	SGB20N60ATMA1	D <sup>2</sup> PAK	600	20	80	2.4
SGB30N60	SP000011985	SGB30N60ATMA1	D <sup>2</sup> PAK	600	30	112	2.5
SGD02N60	SP000011993	SGD02N60BUMA1	DPAK	600	2	12	2.2
SGD04N60	SP000011994	SGD04N60BUMA1	DPAK	600	4	9.4	2.3
SGD06N60	SP000011995	SGD06N60BUMA1	DPAK	600	6	9.6	2.3
SGP02N60	SP000683108	SGP02N60XKSA1	TO-220	600	2	12	2.2
SGP04N60	SP000683110	SGP04N60XKSA1	TO-220	600	4	19	2.3
SGP06N60	SP000683112	SGP06N60XKSA1	TO-220	600	6	24	2.3
SGP10N60A	SP000683118	SGP10N60AXKSA1	TO-220	600	10	40	2.3
SGP15N60	SP000683124	SGP15N60XKSA1	TO-220	600	15	62	2.3
SGP20N60	SP000683126	SGP20N60XKSA1	TO-220	600	20	80	2.4
SGP30N60	SP000683130	SGP30N60XKSA1	TO-220	600	30	112	2.5
SGW10N60A	SP000013742	SGW10N60AFKSA1	TO-247	600	10	40	2.3
SGW15N60	SP000012465	SGW15N60FKSA1	TO-247	600	15	62	2.3
SGW20N60	SP000012466	SGW20N60FKSA1	TO-247	600	20	80	2.4
SGW30N60	SP000012467	SGW30N60FKSA1	TO-247	600	30	41	2.5

### 1200 V

SGB02N120	SP000012558	SGB02N120ATMA1	D <sup>2</sup> PAK	1200	12	9.6	3.7
SGB07N120	SP000012559	SGB07N120ATMA1	D <sup>2</sup> PAK	1200	7	27	3.7
SGB15N120	SP000012560	SGB15N120ATMA1	D <sup>2</sup> PAK	1200	15	52	3.7
SGD02N120	SP000012566	SGD02N120BUMA1	DPAK	1200	2	9.6	3.7
SIG02N120	SP000683104	SIG02N120XKSA1	I <sup>2</sup> PAK	1200	2	9.6	3.7
SGP02N120	SP000683106	SGP02N120XKSA1	TO-220	1200	2	9.6	3.7
SGP07N120	SP000683116	SGP07N120XKSA1	TO-220	1200	7	27	3.7
SGP15N120	SP000683122	SGP15N120XKSA1	TO-220	1200	15	52	3.7
SGW15N120	SP000012564	SGW15N120FKSA1	TO-247	1200	15	52	3.1
SGW25N120	SP000012565	SGW25N120CKSA1	TO-247	1200	25	84	3.1

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{CE}$	$I_C$	$I_C$ (pulse) (max)	$V_{CE}$ (sat) (typ)
				V	A	A	V

**IGBT Power Transistors****Fast DuoPack (IGBT + Emitter Controlled Diode)  
600 V**

SKA06N60	SP000215379	SKA06N60XKSA1	TO-220 FullPAK	600	6	24	2.3
SKB02N60	SP000012416	SKB02N60ATMA1	D <sup>2</sup> PAK	600	2	12	2.2
■ SKB02N60 E3266	SP000012417	SKB02N60E3266ATMA1	D <sup>2</sup> PAK	600	2	12	2.2
SKB04N60	SP000012425	SKB04N60ATMA1	D <sup>2</sup> PAK	600	4	19	2.3
SKB06N60	SP000012427	SKB06N60ATMA1	D <sup>2</sup> PAK	600	6	24	2.3
SKB10N60A	SP000013740	SKB10N60AATMA1	D <sup>2</sup> PAK	600	10	40	2.3
SKB15N60	SP000012429	SKB15N60ATMA1	D <sup>2</sup> PAK	600	15	62	2.0
SKB15N60 E8151	SP000012430	SKB15N60E8151ATMA1	D <sup>2</sup> PAK	600	15	62	2.0
SKP02N60	SP000683136	SKP02N60XKSA1	TO-220	600	2	12	2.2
SKP04N60	SP000683138	SKP04N60XKSA1	TO-220	600	4	19	2.0
SKP06N60	SP000683140	SKP06N60XKSA1	TO-220	600	6	24	2.3
SKP10N60A	SP000683144	SKP10N60AXKSA1	TO-220	600	10	40	2.3
SKP15N60	SP000683146	SKP15N60XKSA1	TO-220	600	15	62	2.3
SKW15N60	SP000012482	SKW15N60FKSA1	TO-247	600	15	62	2.3
SKW20N60	SP000012483	SKW20N60FKSA1	TO-247	600	20	80	2.4
SKW30N60	SP000012484	SKW30N60CKSA1	TO-247	600	30	112	2.5

**1200 V**

SKB02N120	SP000012567	SKB02N120ATMA1	D <sup>2</sup> PAK	1200	2	9.6	3.1
SKP02N120	SP000683134	SKP02N120XKSA1	TO-220	1200	2	9.6	3.7
SKW07N120	SP000012569	SKW07N120FKSA1	TO-247	1200	8	27	3.1
SKW15N120	SP000012570	SKW15N120FKSA1	TO-247	1200	15	52	3.1
SKW25N120	SP000012571	SKW25N120CKSA1	TO-247	1200	25	84	3.1

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{CE}$	$I_C$	$I_C$ (pulse) (max)	$V_{CE}$ (sat) (typ)
				<b>V</b>	<b>A</b>	<b>A</b>	<b>V</b>

## IGBT Power Transistors

### High Speed Single Version 600 V

SGB15N60HS	SP000267909	SGB15N60HSATMA2	D <sup>2</sup> PAK	600	15	60	2.8
SGP20N60HS	SP000683128	SGP20N60HSXKSA1	TO-220	600	20	80	3.5
SGP30N60HS	SP000683132	SGP30N60HSXKSA1	TO-220	600	30	112	3.5
SGW20N60HS	SP000013771	SGW20N60HSFKSA1	TO-247	600	20	36	2.8
SGW30N60HS	SP000013770	SGW30N60HSFKSA1	TO-247	600	30	112	2.8
SGW50N60HS	SP000089248	SGW50N60HSFKSA1	TO-247	600	50	150	2.8

### High Speed-2 1200 V

IGA03N120H2	SP000215371	IGA03N120H2XKSA1	TO-220 FullPAK	1200	3	9	2.5
IGB01N120H2	SP000014614	IGB01N120H2ATMA1	D <sup>2</sup> PAK	1200	1	3.5	2.5
IGB03N120H2	SP000014616	IGB03N120H2ATMA1	D <sup>2</sup> PAK	1200	3	9.9	2.5
IGD01N120H2	SP000014523	IGD01N120H2BUMA1	DPAK	1200	1	3.5	2.5
IGP01N120H2	SP000683036	IGP01N120H2XKSA1	TO-220	1200	1	3.5	2.5
IGP03N120H2	SP000683038	IGP03N120H2XKSA1	TO-220	1200	3	9.9	2.5
IGW03N120H2	SP000014182	IGW03N120H2FKSA1	TO-247	1200	3	9.9	2.2

### High Speed DuoPack (IGBT + Emitter Controlled Diode) 600 V

SKB06N60HS	SP000014222	SKB06N60HSATMA1	D <sup>2</sup> PAK	600	6	24	2.8
SKB15N60HS	SP000014221	SKB15N60HSATMA1	D <sup>2</sup> PAK	600	15	60	2.8
SKW20N60HS	SP000013772	SKW20N60HSFKSA1	TO-247	600	20	80	2.8
SKW30N60HS	SP000013744	SKW30N60HSFKSA1	TO-247	600	30	112	2.8

### High Speed-2 DuoPack, 2nd generation (IGBT + Emitter Controlled Diode) 1200 V

IKA03N120H2	SP000215373	IKA03N120H2XKSA1	TO-220 FullPAK	1200	3	9	2.5
IKB03N120H2	SP000014272	IKB03N120H2ATMA1	D <sup>2</sup> PAK	1200	3	9.9	2.5
IKP03N120H2	SP000683052	IKP03N120H2XKSA1	TO-220	1200	3	9.9	2.5
IKW03N120H2	SP000014181	IKW03N120H2FKSA1	TO-247	1200	3	9.9	2.2

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{CE}$	$I_C$	$I_C$ (pulse) (max)	$V_{CE}$ (sat) (typ)
				V	A	A	V

**IGBT Power Transistors****High Speed-3, 3rd generation  
600 V**

IGA30N00H3	SP000853272	IGA30N60H3XKSA1	TO-220 FullPAK	600	30	120	1.95
IGB20N60H3	SP000852232	IGB20N60H3ATMA1	D <sup>2</sup> PAK	600	20	80	1.95
IGB30N60H3	SP000852240	IGB30N60H3ATMA1	D <sup>2</sup> PAK	600	30	120	1.95
IGP20N60H3	SP000702544	IGP20N60H3XKSA1	TO-220	600	20	80	1.95
IGP30N60H3	SP000702546	IGP30N60H3XKSA1	TO-220	600	30	120	1.95
IGW20N60H3	SP000852238	IGW20N60H3FKSA1	TO-247	600	20	80	1.95
IGW30N60H3	SP000852242	IGW30N60H3FKSA1	TO-247	600	30	120	1.95
IGW40N60H3	SP000769926	IGW40N60H3FKSA1	TO-247	600	40	160	1.95
IGW50N60H3	SP000702548	IGW50N60H3FKSA1	TO-247	600	50	200	1.85
▼ IGW75N60H3	SP000906804	IGW75N60H3FKSA1	TO-247	600	75	225	1.85

**High Speed-3, 3rd generation  
1200 V**

IGW15N120H3	SP000674430	IGW15N120H3FKSA1	TO-247	1200	15	60	2.05
IGW25N120H3	SP000674424	IGW25N120H3FKSA1	TO-247	1200	25	100	2.05
IGW40N120H3	SP000667510	IGW40N120H3FKSA1	TO-247	1200	40	160	2.05

**High Speed-3 DuoPack, 3rd generation (IGBT + Emitter Controlled Diode)  
600 V**

IKB20N60H3	SP0000852234	IKB20N60H3ATMA1	D <sup>2</sup> PAK	600	20	80	1.95
IKP20N60H3	SP0000852236	IKP20N60H3XKSA1	TO-220	600	20	80	1.95
IKW20N60H3	SP0000702556	IKW20N60H3FKSA1	TO-247	600	20	80	1.95
IKW30N60H3	SP0000703042	IKW30N60H3FKSA1	TO-247	600	30	120	1.95
IKW40N60H3	SP0000769928	IKW40N60H3FKSA1	TO-247	600	40	160	1.95
IKW50N60H3	SP0000852244	IKW50N60H3FKSA1	TO-247	600	50	200	1.85
▼ IKW75N60H3	SP000906806	IKW75N60H3FKSA1	TO-247	600	75	225	1.85

**High Speed-3 DuoPack, 3rd generation (IGBT + Emitter Controlled Diode)  
1200 V**

IKW15N120H3	SP000674422	IKW15N120H3FKSA1	TO-247	1200	15	60	2.05
IKW25N120H3	SP000674418	IKW25N120H3FKSA1	TO-247	1200	25	100	2.05
IKW40N120H3	SP000674416	IKW40N120H3FKSA1	TO-247	1200	40	160	2.05

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{CE}$	$I_C$	$I_C$ (pulse) (max)	$V_{CE}$ (sat) (typ)
				V	A	A	V

## IGBT Power Transistors

### TRENCHSTOP™ Single Version 600 V

IGB10N60T	SP000456678	IGB10N60TATMA1	D <sup>2</sup> PAK	600	10	30	1.5
IGB15N60T	SP000054921	IGB15N60TATMA1	D <sup>2</sup> PAK	600	15	45	1.5
IGB30N60T	SP000095765	IGB30N60TATMA1	D <sup>2</sup> PAK	600	30	90	1.5
IGB50N60T	SP000054922	IGB50N60TATMA1	D <sup>2</sup> PAK	600	50	150	1.5
IGD06N60T	SP000233590	IGD06N60TBUMA1	DPAK	600	6	18	1.5
IGP06N60T	SP000683040	IGP06N60TXKSA1	TO-220	600	6	18	1.5
IGP10N60T	SP000683042	IGP10N60TXKSA1	TO-220	600	10	30	1.5
IGP15N60T	SP000683044	IGP15N60TXKSA1	TO-220	600	15	45	1.5
IGP50N60T	SP000683046	IGP50N60TXKSA1	TO-220	600	50	150	1.5
IGW30N60T	SP000054925	IGW30N60TFKSA1	TO-247	600	30	90	1.5
IGW50N60T	SP000054926	IGW50N60TFKSA1	TO-247	600	50	150	1.5
IGW75N60T	SP000054927	IGW75N60TFKSA1	TO-247	600	75	225	1.5

### TRENCHSTOP™ 1200 V

IGW08T120	SP000013937	IGW08T120FKSA1	TO-247	1200	8	24	1.7
IGW15T120	SP000013888	IGW15T120FKSA1	TO-247	1200	15	45	1.7
IGW25T120	SP000013887	IGW25T120FKSA1	TO-247	1200	25	75	1.7
IGW40T120	SP000013886	IGW40T120FKSA1	TO-247	1200	40	105	1.7
IGW60T120	SP000013906	IGW60T120FKSA1	TO-247	1200	60	105	1.7

### TRENCHSTOP™ DuoPack (IGBT + Emitter Controlled Diode) 600 V

IKA06N60T	SP000215375	IKA06N60TXKSA1	TO-220	600	6	18	1.5
IKA10N60T	SP000215376	IKA10N60TXKSA1	TO-220	600	10	30	1.5
IKA15N60T	SP000215377	IKA15N60TXKSA1	TO-220	600	15	45	1.5
IKB06N60T	SP000014954	IKB06N60TATMA1	D <sup>2</sup> PAK	600	6	18	1.5
IKB10N60T	SP000014833	IKB10N60TATMA1	D <sup>2</sup> PAK	600	10	30	1.5
IKB15N60T	SP000054882	IKB15N60TATMA1	D <sup>2</sup> PAK	600	15	45	1.5
IKB20N60T	SP000054883	IKB20N60TATMA1	D <sup>2</sup> PAK	600	20	60	1.5
IKI04N60T	SP000607046	IKI04N60TXKSA1	I <sup>2</sup> PAK	600	4	12	1.5
IKP04N60T	SP000683054	IKP04N60TXKSA1	TO-220	600	4	12	1.5
IKP06N60T	SP000683056	IKP06N60TXKSA1	TO-220	600	6	18	1.5
IKP10N60T	SP000683062	IKP10N60TXKSA1	TO-220	600	10	30	1.5
IKP15N60T	SP000683064	IKP15N60TXKSA1	TO-220	600	15	45	1.5
IKP20N60T	SP000683066	IKP20N60TXKSA1	TO-220	600	20	60	1.5
IHW30N60T	SP000076306	IHW30N60TFKSA1	TO-247	600	30	90	1.5
IHW40T60	SP000309994	IHW40T60FKSA1	TO-247	600	40	120	1.55
IKW20N60T	SP000054886	IKW20N60TFKSA1	TO-247	600	20	60	1.5
IKW30N60T	SP000054887	IKW30N60TFKSA1	TO-247	600	30	90	1.5
IKW50N60T	SP000054888	IKW50N60TFKSA1	TO-247	600	50	150	1.5
IKW75N60T	SP000054889	IKW75N60TFKSA1	TO-247	600	75	225	1.5

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{CE}$	$I_C$	$I_C$ (pulse) (max)	$V_{CE}$ (sat) (typ)
				V	A	A	V

**IGBT Power Transistors****TRENCHSTOP™ DuoPack (IGBT + Emitter Controlled Diode)  
900 V**

IHW30N90T	SP000076322	IHW30N90TFKSA1	TO-247	900	30	90	1.5
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**1000 V**

IHW30N100T	SP000086713	IHW30N100TFKSA1	TO-247	1000	30	90	1.55
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**1200 V**

IHW15T120	SP000014892	IHW15T120FKSA1	TO-247	1200	15	45	2.2
IHW20T120	SP000014881	IHW20T120FKSA1	TO-247	1200	20	60	1.7
IHW40T120	SP000014893	IHW40T120FKSA1	TO-247	1200	40	105	2.3
IKW08T120	SP000013885	IKW08T120FKSA1	TO-247	1200	8	24	1.7
IKW15T120	SP000013938	IKW15T120FKSA1	TO-247	1200	15	45	1.7
IKW25T120	SP000013939	IKW25T120FKSA1	TO-247	1200	25	75	1.7
IKW40T120	SP000013940	IKW40T120FKSA1	TO-247	1200	40	105	1.7

**TRENCHSTOP™2 DuoPack (IGBT + Emitter Controlled Diode)  
1200 V**

IKW15T120T2	SP000244961	IKW15N120T2FKSA1	TO-247	1200	15	60	2.2
IKW25T120T2	SP000244960	IKW25N120T2FKSA1	TO-247	1200	25	100	1.7
IKW40T120T2	SP000244962	IKW40N120T2FKSA1	TO-247	1200	40	160	1.75

**TRENCHSTOP™RC (Reverse Conducting - Soft Switching Applications)  
600 V**

IHD06N60RA	SP000443672	IHD06N60RABUMA1	DPAK	600	6	18	1.6
IHD10N60RA	SP000443668	IHD10N60RABUMA1	DPAK	600	10	20	1.6
IHW40N60R	SP000357222	IHW40N60RFKSA1	TO-247	600	40	120	1.65

**TRENCHSTOP™RC (Reverse Conducting - Fast Soft Switching Applications)  
600 V**

IHW40N60RF	SP000621080	IHW40N60RFFKSA1	TO-247	600	40	120	1.85
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SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{CE}$	$I_C$	$I_C$ (pulse) (max)	$V_{CE}$ (sat) (typ)
				V	A	A	V

## IGBT Power Transistors

### TRENCHSTOP™ RC (Reverse Conducting - Hard Switching Applications) 600 V

IKD04N60R	SP000623346	IKD04N60RBTMA1	DDPAK	600	4	12	1.65
IKD06N60R	SP000623350	IKD06N60RBTMA1	DDPAK	600	6	18	1.65
▼ IKD06N60R	SP000729342	IKD06N60RATMA1	DDPAK	600	6	18	1.65
IKD10N60R	SP000629350	IKD10N60RBTMA1	DDPAK	600	10	30	1.65
▼ IKD10N60R	SP000707606	IKD10N60RATMA1	DDPAK	600	10	30	1.65
IKD15N60R	SP000539764	IKD15N60RBTMA1	DDPAK	600	15	30	1.65
IKU04N60R	SP000623348	IKU04N60RBKMA1	IPAK	600	4	12	1.65
IKU06N60R	SP000623352	IKU06N60RBKMA1	IPAK	600	6	12	1.65
IKU10N60R	SP000629354	IKU10N60RBKMA1	IPAK	600	10	30	1.65
IKU15N60R	SP000539762	IKU15N60RBKMA1	IPAK	600	15	30	1.65

### 1000 V

IGW30N100T	SP000380845	IGW30N100TFKSA1	TO-247	1000	30	90	1.55
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### TRENCHSTOP™ RC (Reverse Conducting - Hard Switching Applications up to 30 kHz) 600 V

▼ IKD03N60RF	SP000892372	IKD03N60RFBTMA1	DDPAK	600	2.5	7.5	2.2
▼ IKD04N60RF	SP000892374	IKD04N60RFBTMA1	DDPAK	600	4	12	2.2

### TRENCHSTOP™ RC (Reverse Conducting - Soft Switching Applications) 1100 V

IHW30N110R3	SP000702510	IHW30N110R3FKSA1	TO-247	1100	30	90	1.55
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### 1200 V

IHW15N120R3	SP000521590	IHW15N120R3FKSA1	TO-247	1200	15	45	1.48
IHW20N120R3	SP000437702	IHW20N120R3FKSA1	TO-247	1200	20	60	1.48
IHW25N120R2	SP000212016	IHW25N120R2FKSA1	TO-247	1200	25	75	1.6
IHW30N120R2	SP000212017	IHW30N120R2FKSA1	TO-247	1200	30	90	2.0
IHY15N120R3	SP000678766	IHY15N120R3XKSA1	TO-247HC-3	1200	15	45	1.48
IHY20N120R3	SP000678764	IHY20N120R3XKSA1	TO-247HC-3	1200	20	60	1.48

### 1350 V

▼ IHW20N135R3	SP000909532	IHW20N135R3FKSA1	TO-247	1350	20	60	1.6
IHY20N135R3	SP000752728	IHY20N135R3XKSA1	TO-247HC-3	1350	20	60	1.6

### 1600 V

IHW30N160R2	SP000273701	IHW30N160R2FKSA1	TO-247	1600	30	90	1.65
IHY30N160R2	SP000678770	IHY30N160R2XKSA1	TO-247HC-3	1600	30	90	1.8

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{RRM}$ V	$I_F$ A	$Q_{rryp}$ nC	$I_{F,SM}$ at $T_j = 25^\circ\text{C}$ A

## Power Diodes

Emitter Controlled Diodes  
600 V

IDB09E60	SP000013914	IDB09E60ATMA1	D <sup>2</sup> PAK	600	9	343	40
IDB15E60	SP000014044	IDB15E60ATMA1	D <sup>2</sup> PAK	600	15	595	60
IDB23E60	SP000278566	IDB23E60ATMA1	D <sup>2</sup> PAK	600	23	970	89
IDB30E60	SP000013917	IDB30E60ATMA1	D <sup>2</sup> PAK	600	30	1100	117
IDB45E60	SP000013635	IDB45E60ATMA1	D <sup>2</sup> PAK	600	45	1400	162
IDD03E60	SP000013632	IDD03E60BUMA1	DPAK	600	3	118	16
IDD06E60	SP000077586	IDD06E60BUMA1	DPAK	600	6	240	29
IDD09E60	SP000013634	IDD09E60BUMA1	DPAK	600	9	343	40
IDD15E60	SP000077587	IDD15E60BUMA2	DPAK	600	15	595	60
IDD15E60	SP000065684	IDD15E60BUMA1	DPAK	600	15	595	60
IDP06E60	SP000683020	IDP06E60XKSA1	TO-220	600	6	240	29
IDP15E60	SP000683024	IDP15E60XKSA1	TO-220	600	15	595	60
IDP23E60	SP000683028	IDP23E60XKSA1	TO-220	600	23	970	89
IDP30E60	SP000683032	IDP30E60XKSA1	TO-220	600	30	1100	117
IDP45E60	SP000683034	IDP45E60XKSA1	TO-220	600	45	1400	162
▼ IDW30E60	SP000916104	IDW30E60FKSA1	TO-247	600	30	1100	117
IDW75E60	SP000227824	IDW75E60FKSA1	TO-247	600	75	2400	220
IDW100E60	SP000227825	IDW100E60FKSA1	TO-247	600	100	3600	400
IDV30E60C	SP000844186	IDV30E60CXKSA1	TO-220 FullPAK	600	30	880	21

## 1200 V

IDB12E120	SP000013640	IDB12E120ATMA1	D <sup>2</sup> PAK	1200	12	1200	63
IDB18E120	SP000013919	IDB18E120ATMA1	D <sup>2</sup> PAK	1200	18	1880	78
IDB30E120	SP000013641	IDB30E120ATMA1	D <sup>2</sup> PAK	1200	30	2630	102
IDP04E120	SP000683018	IDP04E120XKSA1	TO-220	1200	4	330	28
IDP09E120	SP000683022	IDP09E120XKSA1	TO-220	1200	9	950	50
IDP12E120	SP000712390	IDP12E120XKSA1	TO-220	1200	12	1200	63
IDP18E120	SP000683026	IDP18E120XKSA1	TO-220	1200	18	1880	78
IDP30E120	SP000683030	IDP30E120XKSA1	TO-220	1200	30	2630	102

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$I_F$ A	$Q_{Ctyp}$ nC	$I_{F,SM}$ at $T_j = 25^\circ\text{C}$ A

## Power Diodes

### Silicon Carbide Schottky Diodes 2nd Generation 600 V

IDB06S60C	SP000411538	IDB06S60CATMA1	D <sup>2</sup> PAK	600	6	15	46
IDB10S60C	SP000411540	IDB10S60CATMA1	D <sup>2</sup> PAK	600	10	24	76
IDD04IPBS60C	SP000080224	IDD04S60CBUMA1	DPAK	600	4	8	32
IDH04S60C	SP000657976	IDH04S60CAKSA1	TO-220 real 2pin	600	4	8	32
IDH05S60C	SP000797662	IDH05S60CAKSA1	TO-220 real 2pin	600	5	12	42
IDH06S60C	SP000657978	IDH06S60CAKSA1	TO-220 real 2pin	600	6	15	49
IDH08S60C	SP000657994	IDH08S60CAKSA1	TO-220 real 2pin	600	8	19	59
IDH10S60C	SP000657996	IDH10S60CAKSA1	TO-220 real 2pin	600	10	24	84
IDH12S60C	SP000797664	IDH12S60CAKSA1	TO-220 real 2pin	600	12	30	98
IDH16S60C	SP000797666	IDH16S60CAKSA1	TO-220 real 2pin	600	16	38	118
IDV02S60C	SP000659198	IDV02S60CXKSA1	TO-220 FullPAK	600	2	3.2	11.5
IDV03S60C	SP000732198	IDV03S60CXKSA1	TO-220 FullPAK	600	3	5	16
IDV04S60C	SP000732202	IDV04S60CXKSA1	TO-220 FullPAK	600	4	8	32
IDV05S60C	SP000732204	IDV05S60CXKSA1	TO-220 FullPAK	600	5	12	44
IDV06S60C	SP000732206	IDV06S60CXKSA1	TO-220 FullPAK	600	6	15	48

### 1200 V

IDH05S120	SP000293029	IDH05S120AKSA1	TO-220 real 2pin	1200	5	18	29
IDH08S120	SP000293031	IDH08S120AKSA1	TO-220 real 2pin	1200	8	27	39
IDH10S120	SP000293034	IDH10S120AKSA1	TO-220 real 2pin	1200	10	36	58
IDH15S120	SP000293028	IDH15S120AKSA1	TO-220 real 2pin	1200	15	54	78

### 3rd Generation 600 V

IDD03SG60C	SP000786802	IDD03SG60CXTMA1	DPAK	600	3	3.2	11.5
IDD04SG60C	SP000786804	IDD04SG60CXTMA1	DPAK	600	4	4.5	18
IDD05SG60C	SP000786806	IDD05SG60CXTMA1	DPAK	600	5	6.0	26
IDD06SG60C	SP000786808	IDD06SG60CXTMA1	DPAK	600	6	8.0	32
IDD08SG60C	SP000786810	IDD08SG60CXTMA1	DPAK	600	8	12	42
IDD09SG60C	SP000786812	IDD09SG60CXTMA1	DPAK	600	9	15	49
IDD10SG60C	SP000786814	IDD10SG60CXTMA1	DPAK	600	10	16	51
IDD12SG60C	SP000786816	IDD12SG60CXTMA1	DPAK	600	12	19	59
IDH03SG60C	SP000523728	IDH03SG60CXKSA1	TO-220 real 2pin	600	3	3.2	11.5
IDH04SG60C	SP000607026	IDH04SG60CXKSA1	TO-220 real 2pin	600	4	4.5	18
IDH05SG60C	SP000607034	IDH05SG60CXKSA1	TO-220 real 2pin	600	5	6.0	26
IDH06SG60C	SP000523730	IDH06SG60CXKSA1	TO-220 real 2pin	600	6	8.0	11.5
IDH08SG60C	SP000523732	IDH08SG60CXKSA1	TO-220 real 2pin	600	8	12	42
IDH09SG60C	SP000523734	IDH09SG60CXKSA1	TO-220 real 2pin	600	9	15	49
IDH10SG60C	SP000607040	IDH10SG60CXKSA1	TO-220 real 2pin	600	10	16	51
IDH12SG60C	SP000523738	IDH12SG60CXKSA1	TO-220 real 2pin	600	12	19	59

### 1200 V

IDH02SG120	SP000541318	IDH02SG120XKSA1	TO-220 real 2pin	1200	2	7.2	12
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SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data		
				$V_{DS}$	$I_{L-ISO-Norm}$	$R_{DS(on)}$
				V	A	mΩ

## Smart Low-Side Switches

## TEMPFET™

## N-Channel Enhancement Types

■	BTS110	SP000011184	BTS110NKSA1	P-TO220-3-1	100	1.75	200
■	BTS110 E3045A	SP000011183	BTS110E3045ANTMA1	P-TO220-3-45	100	1.75	200
■	BTS112A	SP000011185	BTS112ANKSA1	P-TO220-3-1	60	2.5	150
■	BTS112A E3045A	SP000011186	BTS112AE3045ANTMA1	P-TO220-3-45	60	2.5	150
■	BTS114A	SP000011191	BTS114ANKSA1	P-TO220-3-1	50	3.8	100
■	BTS114A E3045A	SP000011192	BTS114AE3045ANTMA1	P-TO220-3-45	50	3.8	100
■	BTS129	SP000011202	BTS129NKSA1	P-TO220-3-1	60	7.5	50
■	BTS129 E3045A	SP000011203	BTS129E3045ANTMA1	P-TO220-3-45	60	7.5	50
▼	BTS240A	SP000841302	BTS240AHKSA1	PG-TO218-3-1	50	21	50

## N-Channel Enhancement Types (Logic Level)

■	BTS113A	SP000011187	BTS113ANKSA1	P-TO220-3-1	60	2.2	170
■	BTS113A E3045A	SP000011188	BTS113AE3045ANTMA1	P-TO220-3-45	60	2.2	170
■	BTS113A E3064	SP000011189	BTS113AE3064NKSA1	P-TO220-3-64	60	2.2	170
■	BTS115A	SP000011193	BTS115ANKSA1	P-TO220-3-1	50	3.2	120
■	BTS115A E3045A	SP000011194	BTS115AE3045ANTMA1	P-TO220-3-45	50	3.2	120
■	BTS121A	SP000011200	BTS121ANKSA1	P-TO220-3-1	100	3.5	100
■	BTS121A E3045A	SP000011201	BTS121AE3045ANTMA1	P-TO220-3-45	100	3.5	100
■	BTS131	SP000011204	BTS131NKSA1	P-TO220-3-1	50	6.5	60
■	BTS131 E3045A	SP000011206	BTS131E3045ANTMA1	P-TO220-3-45	50	6.5	60
■	BTS132 E3045A	SP000011210	BTS132E3045ANTMA1	P-TO220-3-45	60	6.0	65
■	BTS132 E3129	SP000011208	BTS132E3129NKSA1	P-TO220-3-129	60	6.0	65

## SPEED TEMPFET™

## N-Channel Enhancement Types

■	BTS244Z	SP000468060	BTS244ZAKSA1	PG-TO220-5-3	55	19	18
■	BTS244Z E3043	SP000399006	BTS244ZE3043AKSA1	PG-TO220-5-43	55	19	18
■	BTS244Z E3062A	SP000399004	BTS244ZE3062AATMA1	PG-TO220-5-62	55	19	18
■	BTS247Z	SP000468058	BTS244ZE3062AATMA	PG-TO220-5-3	55	26	13
■	BTS247Z E3043	SP000399008	BTS247ZE3043AKSA1	PG-TO220-5-43	55	26	13
■	BTS247Z E3062A	SP000399010	BTS247ZE3062AATMA1	PG-TO220-5-62	55	26	13
■	BTS282Z	SP000399016	BTS282ZAKSA1	PG-TO220-7-3	49	36	6.5
■	BTS282Z E3180A	SP000399014	BTS282ZE3180AATMA1	PG-TO220-7-180	49	36	6.5
■	BTS282Z E3230	SP000457996	BTS282ZE3230AKSA1	PG-TO220-7-230	49	36	6.5

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data		
				$V_{DS}$ V	$I_{L-ISO-Norm}$ A	$R_{DS(on)}$ mΩ

## Smart Low-Side Switches

### HITFET™ for automotive applications

BSP75N	SP000305171	BSP75NHUMA1	PG-SOT223-4	> 60	0.7	550
BSP76 E6433	SP000379611	BSP76E6433HUMA1	PG-SOT223-4	> 42	1.4	200
BSP77 E6433	SP000383400	BSP77E6433HUMA1	PG-SOT223-4	> 42	2.17	100
BSP78	SP000292892	BSP78HUMA1	PG-SOT223-4	> 42	3.0	50
■ BTS117	SP000011195	BTS117NKSA1	P-TO220-3-5	> 60	3.5	100
BTS117 E3044A	SP000011198	BTS117E3044ANTMA1	P-TO220-3-44	> 60	3.5	100
BTS117TC	SP000668258	BTS117TCBUMA1	PG-TO263-3-2	> 60	3.5	100
BTS118D	SP000506212	BTS118DATMA1	PG-TO252-3-11	> 42	2.4	100
■ BTS133	SP000011211	BTS133NKSA1	P-TO220-3-5	> 60	7.0	50
BTS133 E3064	SP000011212	BTS133E3064NKSA1	P-TO220-3-45	> 60	7.0	50
BTS133TC	SP000668256	BTS133TCBUMA1	PG-TO263-3-2	> 60	7.0	50
BTS134D	SP000506208	BTS134DATMA1	PG-TO252-3-11	> 42	3.5	50
■ BTS141	SP000011218	BTS141NKSA1	P-TO220-3-5	> 60	12	28
BTS141 E3064	SP000011220	BTS141E3064NKSA1	P-TO220-3-64	> 60	12	28
BTS141TC	SP000668254	BTS141TCBUMA1	PG-TO263-3-2	> 60	12	28
BTS142D	SP000506220	BTS142DATMA1	PG-TO252-3-11	> 42	4.6	28
BTS149	SP000011221	BTS149NKSA1	P-TO220-3-1	> 60	19	18
BTS149 E3045A	SP000011222	BTS149E3045ANTMA1	P-TO220-3-45	> 60	19	18
BTS3028SDL	SP000438722	BTS3028SDLATMA1	PG-TO252-3-11	60	5.0	28 (latch)
BTS3028SDR	SP000438724	BTS3104SDRATMA1	PG-TO252-3-11	60	5.0	28 (restart)
BTS3046SDL	SP000438726	BTS3046SDLATMA1	PG-TO252-3-11	60	3.6	46 (latch)
BTS3104SDR	SP000438728	BTS3046SDRATMA1	PG-TO252-3-11	60	3.6	46 (restart)
BTS3104SDL	SP000438730	BTS3104SDLATMA1	PG-TO252-3-11	60	2.0	104 (latch)
BTS3046SDR	SP000438732	BTS3046SDRATMA1	PG-TO252-3-11	60	2.0	104 (restart)
BTS3110N	SP000292896	BTS3110NHUMA1	PG-SOT223-4	> 42	1.4	200
BTS3118D	SP000506216	BTS3118DATMA1	PG-TO252--3-11	> 42	2.4	100
BTS3118N	SP000305173	BTS3118NHUMA1	PG-SOT223-4	> 42	2.4	100
BTS3134D	SP000506210	BTS3134DHUMA1	PG-TO252-3-1	> 42	3.5	50
BTS3134N	SP000305174	BTS3134NHUMA1	PG-SOT223-4	> 42	3.5	50
BTS3142D	SP000506218	BTS3142DATMA1	PG-TO252-3-11	> 42	4.6	28
BTS3160D	SP000305175	BTS3160DAUMA1	PG-TO252-5-3	> 40	7.8	10
BTS3205G	SP000237784	BTS3205GXUMA1	PG-DSO-8-24	> 42	0.35	1900
BTS3205N	SP000438116	BTS3205NHUSA1	PG-SOT223-4	> 42	0.35	1900
BTS3207N	SP000294550	BTS3207NHUMA1	PG-SOT223-4	> 42	0.64	500
BTS3256D	SP000315628	BTS3256DAUMA1	PG-TO252-5-3	40	7.5	10
BTS3405G	SP000237783	BTS3405GXUMA1	PG-DSO-8-25	> 42	0.35	1900
BTS3408G	SP000305177	BTS3408GXUMA1	PG-DSO-8-36	> 60	0.55	550
▼ BTS3800SL	SP000732200	BTS3800SLHTSA1	PG-SCT595-5	> 41	0.35	1600
BTS3410G (Dual)	SP000305178	BTS3410GXUMA1	PG-DSO-8-3	> 42	1.3	2 x 200
BTS949	SP000012076	BTS949NKSA1	P-TO220-5-3	> 60	19	18
BTS949 E3043	SP000011325	BTS949E3043NKSA1	P-TO220-5-43	> 60	19	18
BTS949 E3062A	SP000012077	BTS949E3062ANTMA1	P-TO220-5-62	> 60	19	18

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Description
<b>Smart Low-Side Switches</b>				
<b>Smart Multichannel Low-Side Switches (Flex)</b>				
TLE4226G	SP000011756	TLE4226GNUA1		6-fold low-side switch, 2 x 0.5 A, 4 x 50 mA
TLE6217G	SP000435876	TLE6217GAUMA1		Quad-channel low-side switch, 2 x 5 A, 2 x 3 A
TLE6220GP	SP000691118	TLE6220GPAUMA2		Quad-channel low-side switch, 4 x 3 A
TLE6228GP	SP000801282	TLE6228GPAUMA2		Quad-channel low-side switch, 2 x 5 A, 2 x 3 A, tape & reel
TLE6230GP	SP000691114	TLE6230GPAUMA1		Octal-low-side switch, 8 x 1 A
TLE6232GP	SP000691110	TLE6232GPAUMA2		Six-channel low-side switch, 4 x 3 A, 2 x 1.5 A
TLE6240GP	SP000627670	TLE6240GPAUMA1		16-fold low-side switch, 8 x 1 A, 8 x 3 A
TLE6244X	SP000304416	TLE6244XAUMA1		18-channel low-side switch with SPI, 2 x 3.0 A, 12 x 2.2 A, 4 x 1.1 A
TLE6288R	SP000691124	TLE6288RAUMA2		6-channel low-side switch with SPI, 3-channel high side with adjustable P&H current control, 3-channel high/low side configurable
TLE7241E	SP000485116	TLE7241EXUMA1		Dual-channel constant current control solenoid driver with 16-bit SPI
TLE7242-2G	SP000318374	TLE72422GXUMA1		Quad-channel fixed frequency constant current control IC with 32-bit SPI
TLE8102SG	SP000377621	TLE8102SGCUMA1		Dual-channel powertrain switch coreFLEX with 8-bit SPI
TLE8104E	SP000766202	TLE8104EXUMA2		Quad-channel powertrain switch coreFLEX with 8-bit SPI
▼ TLE8108EM	SP000766920	TLE8108EMXUMA1		Eight-channel low side relay driver with 8-bit SPI (coreFLEX)
▼ TLE8110EE	SP000263906	TLE8110EEXUMA1		Ten-channel low side switch with parallel control and SPI (coreFLEX)

**SPI Driver for Enhanced Relay Control (SPIDER)**

TLE7230G	SP000311687	TLE7230GXUMA1		8-channel low-side switch, 8 x 0.3 A
TLE7230R	SP000311685	TLE7230RAUMA1		Octal low-side switch, power, with SPI, 8 x 0.5 A
TLE7232G	SP000311690	TLE7232GXUMA1		8-channel low-side switch, 8 x 0.24 A
TLE7231G	SP000297859	TLE7231GXUMA1		4-channel low-side switch, 4 x 0.32 A
TLE7233G	SP000297860	TLE7233GXUMA1		4-channel low-side switch, 4 x 0.39 A, with four input pins for direct control and limp home
TLE7234EM	SP000670334	TLE7234EMXUMA1		8-channel high-side and low-side relay switch, 8 x 0.35 A
▼ TLE7234SE	SP000670264	TLE7234SEXUMA1		8-channel high-side and low-side relay switch, 6x 0.28 A, 2 x 0.14 A, three direct inputs
▼ TLE7235EM	SP000670336	TLE7235EMXUMA1		8-channel high-side and low-side relay switch with limp home mode, 6 x 0.35, 2 x 0.175 A
TLE7236EM	SP000670338	TLE7236EMXUMA1		8-channel high-side and low-side relay switch with limp home mode and cranking, 8 x 0.35 A
▼ TLE7236SE	SP000670268	TLE7236SEXUMA1		8-channel high-side and low-side relay switch with limp home mode and cranking, 6x 0.28 A, 2 x 0.14 A
TLE7237SL	SP000670304	TLE7237SLXUMA1		8-channel high-side and low-side relay switch, 8 x 0.26 A, three direct inputs
TLE7238SL	SP000670306	TLE7238SLXUMA1		8-channel high-side and low-side relay switch with limp home mode, 8 x 0.26 A
TLE7239SL	SP000670308	TLE7239SLXUMA1		8-channel high-side and low-side relay switch with limp home mode and cranking, 8 x 0.25 A
TLE7240SL	SP000897440	TLE7240SLXUMA1		8-channel protected low-side relay switch, 8 x 0.20 A, with four input pins for direct control and limp home
TLE7243SL	SP000897478	TLE7243SLXUMA2		8-channel protected low-side relay switch, $R_{DS} = 1.2\Omega$ with four input pins for direct control and limp home
TLE7244SL	SP000897480	TLE7244SLXUMA2		8-channel protected low-side relay switch, $R_{DS} = 0.8\Omega$ with four input pins for direct control and limp home

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{BB(AZ)}$ min.	$R_{DS(on)}$	$I_{L(nom)}$ min.	$I_{L(SCp)}$ typ.
				V	mΩ	A	A

## Smart High-Side Switches

### Mini PROFET™ for automotive applications

BSP452	SP000272112	BSP452HUMA1	SOT223	41	200	> 0.7	1.5
BSP742R	SP000272115	BSP742RXUMA1	PG-DSO-8-24	41	350	> 0.4	1.2
BSP742RI	SP000278925	BSP742RIXUMA1	PG-DSO-8-24	41	350	> 0.4	1.2
BSP742T	SP000311133	BSP742TXUMA1	PG-DSO-8-24	41	350	0.8	4
BSP752R	SP000355392	BSP752RXUMA2	PG-DSO-8-24	62	200	1.3	6.5
BSP752T	SP000278359	BSP752TXUMA1	PG-DSO-8-24	62	200	1.3	6.5
BSP762T	SP000272118	BSP762TXUMA1	PG-DSO-8-24	41	100	2	10
BSP772T	SP000355395	BSP772TXUMA1	PG-DSO-8-24	41	60	2.6	17
BTS441RG	SP000355405	BTS441RGATMA1	PG-TO263-5-2	> 40	20	7.2	65
BTS441TG	SP000311504	BTS441TGATMA1	PG-TO263-5-2	> 40	20	7.2	65
BTS452R	SP000506224	BTS452RATMA1	PG-TO252-5-11	62	200	1.7	6.5
BTS452T	SP000506226	BTS452TATMA1	PG-TO252-5-11	62	200	1.7	6.5
BTS462T	SP000506232	BTS462TATMA1	PG-TO252-5-1	41	100	2.3	14
BTS4140N	SP000272323	BTS4140NHUMA1	SOT223	62	1000	0.2	0.9
BTS4141N	SP000302609	BTS4141NHUMA1	SOT223	47	200	0.7	1.4
BTS4142N	SP000355402	BTS4142NHUMA1	SOT223	47	200	1.4	3
BTS4175SGA	SP000360279	BTS4175SGAXUMA1	PG-DSO-8-24	> 52	175	1.3	6
BTS4300SGA	SP000360280	BTS4300SGAXUMA1	PG-DSO-8-24	> 34	300	0.4	0.4

### Mini PROFET™ for industrial applications

ISP452	SP000219823	ISP452HUMA1	SOT223	41	200	> 0.7	1.5
ISP742RI	SP000221229	ISP742RIFUMA1	PG-DSO-8-6	41	350	> 0.4	1.2
ISP752R	SP000219825	ISP752RFUMA1	PG-DSO-8-6	62	200	1.3	6.5
ISP752T	SP000211730	ISP752TFUMA1	PG-DSO-8-6	62	200	1.3	6.5
ISP762T	SP000221228	ISP762TFUMA1	PG-DSO-8-6	41	100	2	10
ISP772T	SP000219824	ISP772TFUMA1	PG-DSO-8-6	41	60	2.6	17
ITS4140N	SP000240073	ITS4140NHUMA1	SOT223	62	1000	0.2	0.9
ITS4141D	SP000221235	ITS4141DBUMA1	P-TO252-5-1	47	200	0.7	1.4
ITS4141N	SP000219536	ITS4141NHUMA1	SOT223	47	200	0.7	1.4
ITS4142N	SP000221218	ITS4142NHUMA1	SOT223	47	200	1.4	3

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{BB(AZ)}$ min.	$R_{DS(on)}$	$I_{L(nom)}$ min.	$I_{L(SCP)}$ typ.
				V	mΩ	A	A

### Smart High-Side Switches

#### PROFET™ for automotive applications

BTS307 E3062A	SP000011225	BTS307E3062ANTMA1	P-TO220-5-62	65	250	1.7	10
BTS409L1 E3062A	SP000011232	BTS409L1E3062ANTMA1	P-TO220-5-62	43	200	2	7.5
BTS410E2	SP000011233	BTS410E2NKSA1	P-TO220-5-3	65	220	2	12
BTS410E2 E3043	SP000011234	BTS410E2E3043NKSA1	P-TO220-5-43	65	220	2	12
BTS410E2 E3062A	SP000011235	BTS410E2E3062ANTMA1	P-TO220-5-62	65	220	2	12
BTS410F2	SP000011236	BTS410F2NKSA1	P-TO220-5-3	65	220	2	5.5
BTS410F2 E3062A	SP000016371	BTS410F2NKSA1	P-TO220-5-62	65	220	2	5.5
BTS426L1 E3062A	SP000011244	BTS426L1E3062ANTMA1	P-TO220-5-62	> 40	60	4	25
BTS428L2	SP000506234	BTS428L2ATMA1	PG-TO252-3-1	> 40	60	3.6	22
BTS432E2	SP000711528	BTS432E2BKSA1	PG-TO220-5-3	63	38	9	44
BTS432E2 E3062A	SP000663358	BTS432E2E3062ABUMA1	PG-TO220-5-62	63	38	9	44
BTS436L2G	SP000011257	BTS436L2GNTMA1	P-TO263-5-2	> 40	38	5.2	51
BTS442E2	SP000711526	BTS442E2BKSA1	PG-TO220-5-3	63	18	17	95
BTS442E2 E3062A	SP000663460	BTS442E2E3062ABUMA1	PG-TO220-5-62	63	18	17	95
BTS640S2G	SP000528876	BTS640S2GATMA1	PG-TO263-7-2	> 40	30	4.0	50
BTS730	SP000272333	BTS730XUMA1	PG-DSO-20-9	> 40	70	3.5	20

#### PROFET™ for industrial applications

ITS410E2	SP000221219	ITS410E2HKSA1	PG-TO220-5-3	65	220	2	12
ITS410E2 E3043	SP000221227	ITS410E2E3043HKSA1	PG-TO220-5-43	65	220	2	12
ITS428L2	SP000525146	ITS428L2ATMA1	PG-TO252-3-1	> 40	60	3.6	22
ITS436L2	SP000221231	ITS436L2HKSA1	PG-TO220-5-11	> 40	38	5.2	51
ITS436L2S	SP000221232	ITS436L2SHKSA1	PG-TO220-5-12	> 40	38	5.2	51
ITS640S2	SP000221217	ITS640S2HKSA1	PG-TO220-7-11	> 40	30	4.0	50
ITS640S2S	SP000221225	ITS640S2SHKSA1	PG-TO220-7-12	> 40	30	4.0	50

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{BB(AZ) \text{ min.}}$	$R_{DS \text{ (on)}}$	$I_{L(nom) \text{ min.}}$	$I_{L(SCp) \text{ typ.}}$
				V	mΩ	A	A

## Smart High-Side Switches

### High Current PROFET™ for automotive applications

BTF50060-1TEA	SP000629444	BTF500601TEAAUMA1	PG-TO252-5-11	16	6	16.5	60
BTS443P	SP000264198	BTS443PAUMA1	PG-TO252-5-11	38	16	6.2	35
▼ BTS50015-1TAA	SP000415964	BTS500151TAAATMA1	PG-TO263-7-8	28	3	33	135
BTS50050-1EGA	SP000410462	BTS500501EGAAUMA1	PG-DSO-12-16	42	5	16	100
BTS50055-1TMA	SP000385906	BTS500551TMAATMA1	PG-TO220-7-4	62	6	13.6	130
BTS50055-1TMB	SP000385907	BTS500551TMBAKSA1	PG-TO220-7-11	62	6	13.6	130
BTS50055-1TMC	SP000385908	BTS500551TMCATMA1	PG-TO220-7-4	62	6	13.6	130
BTS50060-1EGA	SP000299539	BTS500601EGAAUMA1	PG-DSO-12-16	42	6	15	100
BTS50060-1TEA	SP000402336	BTS500601TEAAUMA1	PG-TO252-5-11	42	6	15	100
BTS50070-1EGA	SP000410464	BTS500701EGAAUMA1	PG-DSO-12-16	42	7	14	90
BTS50070-1TMA	SP000411772	BTS500701TMAATMA1	PG-TO220-7-4	39	7	12	90
BTS50070-1TMB	SP000411774	BTS500701TMBAKSA1	PG-TO220-7-12	39	7	12	90
BTS50080-1EGA	SP000410466	BTS500801EGAAUMA1	PG-DSO-12-16	42	8	13	80
BTS50080-1TEA	SP000411780	BTS500801TEAAUMA1	PG-TO252-5-11	39	8	10	70
BTS50080-1TEB	SP000411784	BTS500801TEBAUMA1	PG-TO252-5-11	39	8	10	70
BTS50080-1TMA	SP000385909	BTS500801TMAATMA1	PG-TO220-7-4	39	8	9.5	90
BTS50080-1TMB	SP000385910	BTS500801TMBAKSA1	PG-TO220-7-12	39	8	9.5	90
BTS50080-1TMC	SP000479402	BTS500801TMCATMA1	PG-TO220-7-4	39	8	9.5	90
BTS50085-1TMA	SP000385911	BTS500851TMAATMA1	PG-TO220-7-4	62	9	9.9	90
BTS50085-1TMB	SP000385912	BTS500851TMBAKSA1	PG-TO220-7-11	70	9	9.9	90
BTS5012SDA	SP000298620	BTS5012SDAAUMA1	PG-TO252-5-11	39	12	6.5	65
BTS5014SDA	SP000298621	BTS5014SDAAUMA1	PG-TO252-5-11	39	14	6.0	55
BTS5016SDA	SP000298622	BTS5016SDAAUMA1	PG-TO252-5-11	39	16	5.5	45
▼ BTS5030-1EJA	SP000746730	BTS50301EJAXUMA1	PG-DSO-8-43 EP	41	30	5.0	36
▼ BTS5045-1EJA	SP000746732	BTS50451EJAXUMA1	PG-DSO-8-43 EP	41	45	4.0	25
▼ BTS5090-1EJA	SP000747082	BTS50901EJAXUMA1	PG-DSO-8-43 EP	41	90	3.0	20
BTS6133D	SP000274948	BTS6133DAUMA1	PG-TO252-5-1	39	10	8.0	105
BTS6142D	SP000264200	BTS6142DAUMA1	PG-TO252-5-1	39	12	7.0	100
BTS6143D	SP000264199	BTS6143DAUMA1	PG-TO252-5-11	39	10	8.0	105
BTS6143D	SP000450414	BTS6143DAUMA2	PG-TO252-5-11	39	10	8.0	105
BTS6163D	SP000264201	BTS6163DAUMA1	PG-TO252-5-11	63	20	5.5	80

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{BB(AZ)}$ min.	$R_{DS}$ (on)	$I_{L(nom)}$ min.	$I_{L(SCP)}$ typ.
				V	mΩ	A	A

## Smart High-Side Switches

## Two Channel PROFET™ for automotive applications

BTS4160DGA	SP000360284	BTS4160DGAXUMA1	PG-DSO-14-37	> 43	2 x 160	1.8	6.5
BTS5020-2EKA	SP000857482	BTS50202EKAXUMA2	PG-DSO-14-40 EP	> 24	2 x 20	7/5	50
BTS5030-2EKA	SP000389642	BTS50302EKAXUMA1	PG-DSO-14-40 EP	> 24	2 x 30	6/4	36
BTS5045-2EKA	SP000857484	BTS50452EKAXUMA1	PG-DSO-14-40 EP	> 24	2 x 45	4.5/3	25
BTS5090-2EKA	SP000639242	BTS50902EKAXUMA1	PG-DSO-14-40 EP	> 24	2 x 90	3.5/2.5	20
BTS5120-2EKA	SP000639244	BTS51202EKAXUMA1	PG-DSO-14-40 EP	> 24	2 x 120	2.5/2	9
BTS5180-2EKA	SP000639238	BTS51802EKAXUMA1	PG-DSO-14-40 EP	> 24	2 x 180	2/1.5	8
BTS5210G	SP000272327	BTS5210GXUMA1	PG-DSO-14-35	> 43	2 x 140	2.4	6.5
BTS5210L	SP000301612	BTS5210LAUMA1	PG-DSO-12-9	> 43	2 x 140	2.4	6.5
BTS5215L	SP000301613	BTS5215LAUMA1	PG-DSO-12-9	> 43	2 x 90	3.7	12
■ BTS5231-2GS	SP000281794	BTS52312GSXUMA1	PG-DSO-14-31	> 28	2 x 140	1.8	8
■ BTS5235-2G	SP000281079	BTS52352GXUMA1	PG-DSO-20-43	> 28	2 x 60	3.5	6
■ BTS5235-2L	SP000280715	BTS52352LAUMA1	PG-DSO-12-9	> 28	2 x 60	3.5	6
■ BTS5236-2GS	SP000280717	BTS52362GSXUMA1	PG-DSO-14-32	> 28	2 x 50	3.6	6
■ BTS5242-2L	SP000281082	BTS52422LAUMA1	PG-DSO-12-19	> 28	2 x 25	6.0	7/40 (adjust.)
■ BTS5246-2L	SP000281083	BTS52462LAUMA1	PG-DSO-12-19	> 28	2 x 19	6.0	7/40 (adjust.)
BTS723GW	SP000272332	BTS723GWXUMA1	PG-DSO-14	> 58	2 x 105	2.9	8
BTS740S2	SP000313545	BTS740S2XUMA1	PG-DSO-20-9	> 34	2 x 30	5.5	24

## Two Channel PROFET™ for industrial applications

ITS612N1	SP000221233	ITS612N1HKSA1	PG-TO220-7-3	> 40	2 x 200	2.0	7.5
ITS612N1 E3230	SP000221234	ITS612N1E3230HKSA1	PG-TO220-7-230	> 40	2 x 200	2.0	7.5
ITS621L1	SP000219533	ITS621L1HKSA1	PG-TO220-7-3	> 40	2 x 100	3.0	14
ITS621L1 E3220	SP000221224	ITS621L1E3220HKSA1	PG-TO220-7-230	> 40	2 x 100	3.0	14
ITS5215L	SP000219826	ITS5215LCUMA1	PG-DSO-12-2	> 40	2 x 90	3.7	15

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{BB(AZ)}$ min.	$R_{DS}$ (on)	$I_{L(nom)}$ min.	$I_{L(SCp)}$ typ.
				V	mΩ	A	A

## Smart High-Side Switches

### Four Channel PROFET™ for automotive applications

BTS4130QGA	SP000360283	BTS4130QGAXUMA1	PG-DSO-20-32	> 43	4 x 130	1.8	5
BTS711L1	SP000379623	BTS711L1XUMA1	PG-DSO-20-9	> 40	4 x 200	1.7	7.5
BTS712N1	SP000317660	BTS712N1XUMA1	PG-DSO-20-9	> 40	4 x 200	1.7	7.5
BTS716G	SP000313686	BTS716GXUMA1	PG-DSO-20-9	> 40	4 x 140	2.3	9
BTS716GB	SP000272337	BTS716GBXUMA1	PG-DSO-20-9	> 40	4 x 140	2.3	9
BTS721L1	SP000317661	BTS721L1XUMA1	PG-DSO-20-9	> 40	4 x 100	2.5	14
BTS724G	SP000313543	BTS724GXUMA1	PG-DSO-20-9	> 40	4 x 90	3.0	15
BTS737S3	SP000014328	BTS737S3NUMA1	P-DSO-28-16	> 40	4 x 35	5.0	45
BTS 824R	SP000013628	BTS824RNUMA1	P-DSO-20-12	> 40	4 x 90	3.7	12

### Four Channel PROFET™ for industrial applications

ITS711L1	SP000219532	ITS711L1FUMA1	PG-DSO-20-9	> 40	4 x 200	1.7	7.5
ITS716G	SP000219534	ITS716GFUMA1	PG-DSO-20-9	> 40	4 x 140	2.3	9
ITS724G	SP000219835	ITS724GFUMA1	PG-DSO-20-9	> 40	4 x 90	3.7	15

### Eight Channel PROFET™ for automotive applications

BTS4880R	SP000276938	BTS4880RAUMA1	PG-DSO-36-12	47	8 x 200	1.4	3
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### Eight Channel PROFET™ for industrial applications

ITS4880R	SP000219527	ITS4880RCUMA1	PG-DSO-36-12	47	8 x 200	1.4	3
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SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Smart High-Side Switches</b>				
<b>SPI Power Controller (SPOC) for automotive applications</b>				
BTS5460SF	SP000408346	BTS5460SFXUMA1	PG-DSO-36-43	Four channel smart high-side switches for advanced front light control, 8-bit serial peripheral interface, LED mode, overvoltage protection: > 40 V, loads: 2 x 65 W + 2 x 27 W, tape & reel
BTS5480SF	SP000408348	BTS5480SFXUMA1	PG-DSO-36-43	Four channel smart high-side switches for advanced front light control, 8-bit serial peripheral interface, LED mode, overvoltage protection: > 40 V, loads: 2 x 65 W + 2 x 27 W, tape & reel
BTS6460SF	SP000408350	BTS6480SFXUMA1	PG-DSO-36-43	Four channel smart high-side switches for advanced front light control, 16-bit serial peripheral interface, LED mode, overvoltage protection: > 40 V, loads: 2 x 65 W + 2 x 27 W, tape & reel
BTS6480SF	SP000408352	BTS6480SFXUMA1	PG-DSO-36-43	Four channel smart high-side switches for advanced front light control, 16-bit serial peripheral interface, LED mode, overvoltage protection: > 40 V, loads: 2 x 65 W + 2 x 27 W, tape & reel
BTS5566G	SP000255738	BTS5566GXUMA1	PG-DSO-36-34	Five channel smart high-side switches for bulb application, overvoltage protection: > 41 V, loads: 3 x 27 W + 2 x 10 W, tape & reel
BTS5590G	SP000306869	BTS5590GXUMA1	PG-DSO-36-34	Five channel smart high-side switches for bulb application, LED mode, watchdog integrated overvoltage protection: > 41 V, loads: 3 x 27 W + 2 x 10 W, tape & reel
BTS5576G	SP000255737	BTS5576GXUMA1	PG-DSO-36-34	Five channel smart high-side switches for bulb application, LED mode, overvoltage protection: > 41 V, loads: 3 x 27 W + 2 x 10 W, tape & reel
BTS5562E	SP000425312	BTS5562EAUMA1	PG-DSO-36-36 EP	Five channel smart high-side switches for bulb application, overvoltage protection: > 41 V, loads: 3 x 27 W + 2 x 10 W, basic, tape & reel
BTS5572E	SP000425314	BTS5572EAUMA1	PG-DSO-36-36 EP	Five channel smart high-side switches for bulb application, LED mode, overvoltage protection: > 41 V, loads: 3 x 27 W + 2 x 10 W, basic, tape & reel
BTS5662E	SP000296439	BTS5662EAUMA1	PG-DSO-36-36 EP	Six channel smart high-side switches for bulb application, overvoltage protection: > 41 V, loads: 3 x 27 W + 2 x 10 W + 1 x 5 W, basic, tape & reel
BTS5672E	SP000455504	BTS5672EAUMA2	PG-DSO-36-36 EP	Six channel smart high-side switches for bulb application, LED mode, overvoltage protection: > 41 V, loads: 3 x 27 W + 2 x 10 W + 1 x 5 W, basic, tape & reel
BTS5682E	SP000296428	BTS5682EAUMA1	PG-DSO-36-36 EP	Six channel smart high-side switches for bulb application, LED mode and cranking, overvoltage protection: > 41 V, loads: 3 x 27 W + 2 x 10 W + 1 x 5 W, basic, tape & reel

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description	
<b>Power Management ICs</b>					
<b>Automotive ICs</b>					
<b>Motor Driver ICs</b>					
<b>3-Phase Driver</b>					
	TLE6280GP	SP000362092	TLE6280GPAUMA1	PG-DSO-36-12	3-phase bridge driver IC for MOSFET power stages with multiple protection functions, 8 to 20 V supply voltage, tape reel
	TLE6280GP	SP000712092	TLE6280GPAUMA2	PG-DSO-36-12	
■	TLE6287GP	SP000014090	TLE6280GPCUMA1	P-DSO-36-10	3-phase bridge driver IC for MOSFET power stages with multiple protection functions, 8 to 20 V supply voltage, additional pin for charge pump trigger, no di/dt control, tape reel
	TLE7183F	SP000065802	TLE7183FXUMA4	PG-VQFN-48-14	3-phase bridge driver IC for 6 or 12 MOSFET power stages with multiple protection functions, 5.5 to 28 V supply voltage, short circuit protection with five fixed detection levels available, tape reel
	TLE7183F	SP000317385	TLE7183FXUMA2	PG-VQFN-48-14	
	TLE7183F	SP000317391	TLE7183FXUMA3	PG-VQFN-48-14	
▼	TLE7183QU	SP000868988	TLE7183QXUMA1	PG-TQFP-48-8	
	TLE7184F	SP000362096	TLE7184FXUMA1	PG-VQFN-48-14	System IC for B6 motor drive applications. The device integrates all analog functions needed in the system as the B6 pre-driver, 50-mA LDO, PWM interface and an OpAmp, 5 V supply voltage, tape & reel
▼	TLE7184F3V	SP000864920	TLE7184F3VXUMA1	PG-VQFN-48-14	System IC for B6 motor drive applications. The device integrates all analog functions needed in the system as the B6 pre-driver, 50-mA LDO, PWM interface and an OpAmp, 3 V supply voltage, tape & reel
	TLE7185-1E	SP000851146	TLE71851EXUMA1	PG-DSO-36-38	3-phase bridge driver IC for 6 or 12 MOSFET power stages with multiple protection functions, 5.5 to 32 V supply voltage, short circuit protection level adjustable, tape reel
	TLE7189F	SP000248208	TLE7189FXUMA1	PG-VQFN-48	3-phase bridge driver IC for 6 or 12 MOSFET power stages with multiple protection functions, 5.5 to 28 V supply voltage, short circuit protection level adjustable, tape reel
	TLE7189QK	SP000528310	TLE7189QKXUMA1	PG-LQFP-64	3-phase bridge driver IC for 6 or 12 MOSFET power stages with multiple protection functions, 5.5 to 28 V supply voltage, short circuit protection level adjustable, tape reel

## H-Bridge Driver

	TLE6281G	SP000362093	TLE6281GXUMA1	PG-DSO-20-10	Half-bridge gate driver IC for MOSFET power stages with multiple protection functions, 7.5 to 60 V supply voltage, tape reel
	TLE6284G	SP000362095	TLE6284GXUMA1	PG-DSO-20-10	Half-bridge gate driver IC for MOSFET power stages with multiple protection functions, 7.5 to 60 V supply voltage, short circuit protection level adjustable, tape reel
▼	TLE7181EM	SP000628808	TLE7181EMXUMA1	PG-SSOP-24	Half-bridge and dual-half bridge driver IC for four N-channel power MOSFETs with multiple protection functions, 7 to 34 V supply voltage, short circuit protection level adjustable, tape reel
▼	TLE7182EM	SP000628810	TLE7182EMXUMA1	PG-SSOP-24	Half-bridge and dual-half bridge driver IC for four N-channel power MOSFETs with multiple protection functions, 7 to 34 V supply voltage, short circuit protection level adjustable, separate control input for each MOSFET, tape reel
	TLE6282G	SP000362094	TLE6282GXUMA1	PG-DSO-20-10	Dual half-bridge driver IC for 4 external MOSFETs for very high currents, tape reel

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Description
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### Power Management ICs Automotive ICs

#### Stepper Motor Drivers

TCA3727	SP000011713	TCA3727NKLA1	P-DIP-20-3	Stepper motor driver, 2-phase motor, 2 x 1A / 50V, Inhibit, tube
TCA3727G	SP000306731	TCA3727GXUMA1	PG-DSO-24-3	Stepper motor driver, 2-phase motor, 2 x 1A / 50V, Inhibit, tape & reel
TLE4726G	SP000306733	TLE4726GXUMA1	PG-DSO-24-3	
TLE4729G	SP000398988	TLE4729GXUMA1	PG-DSO-24-16	Stepper motor driver, 2-phase with low quiescent current, Inhibit, 2 x 0.7A / 45V, tape & reel
TLE8444SL	SP000394373	TLE8444SLXUMA1	PG-SSOP-24-7	Stepper motor driver, 2-phase with low quiescent current, Inhibit, 4 x 0.8A / 40V, tape & reel

#### Motor Control ICs

TLE4207G	SP000305202	TLE4207GXUMA1	PG-DSO-14-22	Dual half-bridge driver, 2 x 0.8 A / 18 V, status flag mode, tape & reel
TLE4208G	SP000305242	TLE4208GXUMA1	PG-DSO-28-6	Quad half-bridge driver, 4 x 0.8 A / 18 V, status flag mode, tape & reel
TLE5205-2	SP000377306	TLE52052AKSA1	PG-TO220-7-11	Full bridges for DC-motor control, 4 A / 40 V, status flag mode, tube
TLE5205-2S	SP000377308	TLE52052SAKSA1	P-TO220-7-12	
TLE5205-2G	SP000377307	TLE52052GAUMA1	PG-TO263-7-1	Full bridges for DC-motor control, 4 A / 40 V, status flag mode, tape & reel
TLE5205-2GP	SP000304412	TLE52052GPAUMA1	PG-DSO-20-12	
TLE5206-2	SP000377309	TLE52062AKSA1	PG-TO220-7-11	Full bridges for DC-motor control, 4 A / 40 V, status flag mode, tube
TLE5206-2S	SP000377311	TLE52062SAKSA1	PG-TO220-7-22	
TLE5206-2G	SP000377310	TLE52062AKSA1	PG-TO263-7-1	Full bridges for DC-motor control, 4 A / 40 V, status flag mode, tape & reel
TLE5206-2GP	SP000304413	TLE52062GPAUMA1	P-DSO-20-12	
TLE6208-3G	SP000305935	TLE62083GXUMA1	PG-DSO-14-35	Triple-half-bridge driver, 3 x 0.8 A / 32 V, 16-bit SPI, tape & reel
TLE6208-6G	SP000305936	TLE62086GXUMA1	PG-DSO-28-24	Hex-half-bridge driver / double six driver, 6 x 0.8 A / 40 V, 16-bit SPI, tape & reel
TLE6209R	SP000732082	TLE6209RAUMA2	PG-DSO-20-37	Hex-half-bridge driver for throttle control, 6 A / 40 V, tape & reel
TLE8209-2SA	SP000541758	TLE82092SAAUMA1	PG-DSO-20-65	Half-bridge driver for throttle control, 6 A / 28 V, SPI, programmable current limitation, outstanding EMI, tape & reel
▼ TLE84106EL	SP000619116	TLE84106ELXUMA1	PG--SSOP-24-4	Hex-half-bridge driver to drive up to three DC motors, 6 x 0.3 A / 40 V, 16-bit SPI, Inhibit, tape & reel
▼ TLE84110EL	SP000670380	TLE84110ELXUMA1	PG--SSOP-24-4	Deca-half-bridge driver to drive up to five DC motors, 6 x 0.3 A / 40 V, 16-bit SPI, Inhibit, tape & reel

#### Servo Driver ICs

TLE4205G	SP000011747	TLE4205NKLA1	P-DSO-20-6	Power bridges for DC-motor control, 2 x 1 A / 32 V, tape & reel
TLE4206G	SP000298150	TLE4206GXUMA1	PG-DSO-14-22	DC-motor driver for servo driver 2 x 1 A / 18 V, tape & reel
TLE4206-2G	SP000303750	TLE42062GXUMA1	PG-DSO-14-22	
▼ TLE4206-4G	SP000840122	TLE42064GXUMA1	PG-DSO-14-22	Headlight beam controller, H-bridge driver, 2 x 1 A / 19 V, tape & reel
TLE4209A	SP000305193	TLE4209AHKLA1	P-DIP-8-4	DC-motor driver for servo driver 2 x 1 A / 18 V, tube
▼ TLE4209G	SP000270563	TLE4209GXUMA1	PG-DSO-14-22	

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Power Management ICs</b>				
<b>Automotive ICs</b>				
<b>High Current Motor Drivers</b>				
<b>Trilith IC</b>				
BTM7700G	SP000306876	BTM7700GXUMA1	PG-DSO-28-22	Trilith IC, bridge or quad driver, $I_{SCP} = 9.5$ A, status flag, tape & reel
BTM7710G	SP000306878	BTM7700GXUMA	PG-DSO-28-14	Trilith IC, bridge or quad driver, $I_{SCP} = 15$ A, status flag, tape & reel
BTM7710GP	SP000303743	BTM7710GPAUMA1	PG-TO263-15-1	Trilith IC, bridge or quad driver, $I_{SCP} = 15$ A, status flag, PowerPak, tape & reel
BTM7740G	SP000306879	BTM7740GXUMA1	PG-DSO-28-14	Trilith IC, bridge or quad driver, $I_{SCP} = 8$ A, status flag, short circuit protection; tape & reel
BTM7741G	SP000306880	BTM7741GXUMA1	PG-DSO-28-14	Trilith IC, bridge or quad driver, $I_{SCP} = 8$ A, status flag, short circuit protection; tape & reel
▼ BTM7742G	SP000777046	BTM7742GXUMA1	PG-DSO-36-29	Trilith IC 3G, high current H-bridge or quad driver, $I_{SCP} = 12$ A, status flag, short circuit protection, $R_{DS(on)} = 250$ m $\Omega$ , current sense, tape & reel
▼ BTM7745G	SP000777048	BTM7745GXUMA1	PG-DSO-36-29	Trilith IC 3G, high current H-bridge or quad driver, $I_{SCP} = 12$ A, status flag, short circuit protection, $R_{DS(on)} = 250$ m $\Omega$ , tape & reel
BTM7750G	SP000306881	BTM7750GXUMA1	PG-DSO-28-22	Trilith IC, bridge or quad driver, $I_{SCP} = 12$ A, status flag, short circuit protection, tape & reel
BTM7750GP	SP000303751	BTM7750GPAUMA1	PG-TO263-15-1	Trilith IC, bridge or quad driver, $I_{SCP} = 12$ A, status flag, short circuit protection, tape & reel
BTM7751G	SP000306882	BTM7751GXUMA1	PG-DSO-28-14	Trilith IC, bridge or quad driver, $I_{SCP} = 14$ A, status flag, short circuit protection, tape & reel
▼ BTM7752G	SP000267008	BTM7752GXUMA1	PG-DSO-36-29	Trilith IC 3G, high current H-bridge or quad driver, $I_{SCP} = 12$ A, status flag, short circuit protection, $R_{DS(on)} = 15$ m $\Omega$ , current sense, tape & reel
▼ BTM7755G	SP000267009	BTM7755GXUMA1	PG-DSO-36-29	Trilith IC 3G, high current H-bridge or quad driver, $I_{SCP} = 12$ A status flag, short circuit protection, $R_{DS(on)} = 150$ m $\Omega$ , tape & reel
BTM7810K	SP000311145	BTM7810KAUMA1	PG-TO263-15-1	Trilith IC, bridge or quad driver, $I_{SCP} = 42$ A, status flag, PowerPak, HSS: 1 kHz, LSS: 1 kHz, tape & reel
BTM7811K	SP000303752	BTM7811KAUMA1	PG-TO263-15-1	Trilith IC, bridge or quad driver, $I_{SCP} = 42$ A, status flag, PowerPak, HSS: 1 kHz, LSS: 1 kHz, tape & reel

## High Current Motor Drivers NovalithIC™

BTN7930B	SP000299767	BTN7930BAUMA1	PG-TO263-7-1	28 m $\Omega$ NovalithIC™, high current PN half-bridge driver, 32 A, status flag, 5.5 to 28 V operating range, tape & reel
BTN7930P	SP000314911	BTN7930PAKSA1	PG-TO220-7-11	29.6 m $\Omega$ NovalithIC™, high current PN half-bridge driver, 32 A, status flag, 5.5 to 28 V operating range, tube
BTN7930S	SP000355958	BTN7930PAKSA1	PG-TO220-7-12	28.2 m $\Omega$ NovalithIC™, high current PN half-bridge driver, 32 A, status flag, 5.5 to 28 V operating range, tube
▼ BTN7933B	SP000481546	BTN7933BAUMA1	PG-TO263-7-1	28 m $\Omega$ NovalithIC™, high current PN half-bridge driver, 32 A, status flag, 4.5 to 28 V operating range, tape & reel
BTN7960B	SP000299768	BTN7960BAUMA1	PG-TO263-7-1	16 m $\Omega$ NovalithIC™, high current PN half-bridge driver, 47 A, status flag, 5.5 to 27.6 V operating range, tape & reel
BTS7960P	SP000317942	BTN7960PAKSA1	PG-TO220-7-11	17.6 m $\Omega$ NovalithIC™, high current PN half-bridge driver, 47 A, status flag, 5.5 to 28 V operating range, tube
BTS7960S	SP000355960	BTN7960SAKSA1	PG-TO220-7-12	16.2 m $\Omega$ NovalithIC™, high current PN half-bridge driver, 47 A, status flag, 5.5 to 28 V operating range, tube

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Power Management ICs</b>				
<b>Automotive ICs</b>				
<b>High Current Motor Drivers</b>				
<b>NovalithIC™</b>				
(cont'd)				
▼ BTN7963B	SP000481608	BTN7963BAUMA1	PG-TO263-7-1	16 mΩ NovalithIC™, high current PN half-bridge driver, 47A, status flag, 4.5 to 28 V operating range, tape & reel
BTN7970B	SP000299769	BTN7970BAUMA1	PG-TO263-7-1	16 mΩ NovalithIC™, high current PN half-bridge driver, 70 A, status flag, 5.5 to 28 V operating range, tape & reel
BTN7970P	SP000355967	BTN7970PAKSA1	PG-TO220-7-11	17.6 mΩ NovalithIC™, high current PN half-bridge driver, 70 A, status flag, 5.5 to 28 V operating range, tube
BTN7970S	SP000355961	BTN7970SAKSA1	PG-TO220-7-12	16.2 mΩ NovalithIC™, high current PN half-bridge driver, 70 A, status flag, 5.5 to 28 V operating range, tube
BTN7971B	SP000379686	BTN7971BAUMA1	PG-TO263-7-1	16 mΩ NovalithIC™, high current PN half-bridge driver, 70 A, status flag, 4.5 to 28 V operating range, tape & reel
▼ BTN7973B	SP000481626	BTN7973BAUMA1	PG-TO263-7-1	16 mΩ NovalithIC™, high current PN half-bridge driver, 70 A, status flag, 4.5 to 28 V operating range, tape & reel

**Door Module ICs (DoMoPo)**

TLE8201R	SP000107174	TLE8201RAUMA1	PG-DSO-36-27	Full bridge for main doorlock motor, two half-bridges for deadbolt, two half-bridges for mirror position, high-side switch for mirror defrost, four high-side switches for 5 W and 10 W lamps, tape & reel
TLE8203E	SP000310729	TLE8203EXUMA1	PG-DSO-36-50	Three half-bridges for mirror control applications, high-side switch for mirror defrost, two high-side switches for 5 W and 10 W lamps, tape & reel

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Power Management ICs</b>				
<b>IGBT Gate Driver ICs</b>				
<b>EiceDRIVER™</b>				
▼ 1ED020112-B2	SP000898878	1ED020112B2XUMA1	PG-DSO-16-15	Single IGBT driver IC, (600/1200V) gate drive currents of +/-2A (EiceDRIVER™), basic isolation, tape & reel
▼ 1ED020112-BT	SP000920032		PG-DSO-16-15	Single IGBT driver IC, (600/1200V) gate drive currents of +/-2A (EiceDRIVER™), two level turn-off, tape & reel
1ED020112-F	SP000391828	1ED020112FXUMA1	PG-DSO-16-15	Single IGBT driver IC, (600/1200V) gate drive currents of +/-2A (EiceDRIVER™), tape & reel
▼ 1ED020112-F2	SP000920028	1ED020112F2XUMA1	PG-DSO-16-15	Single IGBT driver IC, (600/1200V) gate drive currents of +/-2A (EiceDRIVER™), tape & reel
▼ 1ED020112-FT	SP000920030	1ED020112FTXUMA1	PG-DSO-16-15	Single IGBT driver IC, (600/1200V) gate drive currents of +/-2A (EiceDRIVER™), two level turn-off, tape & reel
1ED020112FA	SP000436718	1ED020112FAXUMA1	PG-DSO-20-55	Single IGBT driver IC, (600/1200V) gate drive currents of +/-2A (EiceDRIVER™), automotive qualified, tape & reel
▼ 1ED020112FA2	SP000898880	1ED020112FA2XUMA1	PG-DSO-20-55	Single IGBT driver IC, (600/1200V) gate drive currents of +/-2A (EiceDRIVER™), automotive qualified, tape & reel
▼ 1ED020112FTA	SP000439658	1ED020112FTAXUMA1	PG-DSO-20-55	Single IGBT driver IC, (600/1200V) gate drive currents of +/-2A (EiceDRIVER™), automotive qualified, two level turn-off, tape & reel
2ED020112-FI	SP000265782	2ED020112FIXUMA1	PG-DSO-18-2	Half bridge IGBT driver IC (1200V), gate drive currents of +1A/-2A (EiceDRIVER™), tape & reel
▼ 2ED020112-F2	SP000920036		PG-DSO-36-58	Half bridge IGBT driver IC (600/1200V), gate drive currents of +/-2A (EiceDRIVER™), tape & reel
2ED020106-FI	SP000776988	2ED020106FIXUMA1	PG-DSO-18-2	Half bridge IGBT driver IC (600V), gate drive currents of +1A/-2A (EiceDRIVER™), tape & reel
2ED020106-FA	SP000850124	2ED020112FAXUMA1	PG-DSO-18-2	Half bridge IGBT driver IC (600V), gate drive currents of +1A/-2A (EiceDRIVER™), automotive qualified, tape & reel
■ 6ED003L02-F	SP000654950	6ED003L02FXUMA1	PG-TSSOP-28	Integrated 3-phase bridge driver IGBT/MOS (200V), (EiceDRIVER™), tape & reel
▼ 6ED003L02-F2	SP000919390	6ED003L02F2XUMA1	PG-TSSOP-28	Integrated 3-phase bridge driver IGBT/MOS (200V), (EiceDRIVER™), tape & reel
■ 6ED003L06-F	SP000246764	6ED003L06FXUMA1	PG-DSO-28-17	Integrated 3-phase bridge driver IGBT/MOS (600V), (EiceDRIVER™), tape & reel
▼ 6ED003L06-F2	SP000929928	6ED003L06F2XUMA1	PG-DSO-28	Integrated 3-phase bridge driver IGBT/MOS (600V), (EiceDRIVER™), tape & reel
▼ 6EDL04I06NT	SP000926082	6EDL04I06NTXUMA1	PG-DSO-28	Integrated 3-phase bridge driver IGBT/MOS (600V), (EiceDRIVER™), input logic negative, tape & reel
▼ 6EDL04I06PT	SP000926088	6EDL04I06PTXUMA1	PG-DSO-28	Integrated 3-phase bridge driver IGBT/MOS (600V), (EiceDRIVER™), input logic positive, tape & reel
▼ 6EDL04N02PR	SP000926072	6EDL04N02PRXUMA1	PG-TSSOP-28	Integrated 3-phase bridge driver IGBT/MOS (200V), (EiceDRIVER™), input logic positive, tape & reel
▼ 6EDL04N06PT	SP000926102	6EDL04N06PTXUMA1	PG-DSO-28	Integrated 3-phase bridge driver IGBT/MOS (600V), (EiceDRIVER™), input logic positive, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Power Management ICs</b>				
<b>Coreless Transformer ISOFACE™</b>				
ISO1H801G	SP000722122	ISO1H801GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial $\mu$ C compatible interface, all types of resistive, inductive and capacitive loads, 0.625 A high-side output, 5 V operating voltage, tape & reel
ISO1H811G	SP000413798	ISO1H811GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial $\mu$ C compatible interface, all types of resistive, inductive and capacitive loads, 0.625 A high-side output, 3.3 - 5 V operating voltage, UL508 compliant, isolated return path for DIAG signal, tape & reel
ISO1H812G	SP000413800	ISO1H812GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial $\mu$ C compatible interface, all types of resistive, inductive and capacitive loads, 0.625 A high-side output, 3.3 - 5 V operating voltage, UL508 compliant, isolated return path for DIAG signal, tape & reel
ISO1H815G	SP000555576	ISO1H815GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial $\mu$ C compatible interface, all types of resistive, inductive and capacitive loads, 1.2 A high-side output, 3.3 - 5 V operating voltage, isolated return path for DIAG signal, tape & reel
ISO1H816G	SP000555578	ISO1H816GAUMA1	PG-DSO-36-10	Isolated power switch for industrial applications, 8-bit parallel/serial $\mu$ C compatible interface, all types of resistive, inductive and capacitive loads, 1.2 A high-side output, 3.3 - 5 V operating voltage, isolated return path for DIAG signal, tape & reel
▼ ISO1I811T	SP000876494	ISO1I811TXUMA1	PG-TSSOP-48	Isolated 8-channel digital input with IEC61131-2 type 1/2/3 characteristics for industrial applications, status LED output for each input, 3.3 - 5 V operating voltage, isolation between input and output using Coreless Transformer Technology, 125-kHz sampling frequency, tape & reel
▼ ISO1I813T	SP000876504	ISO1I813TXUMA1	PG-TSSOP-48	Isolated 8-channel digital input with IEC61131-2 type 1/2/3 characteristics for industrial applications, status LED output for each input, 3.3 - 5 V operating voltage, isolation between input and output using Coreless Transformer Technology, 500-kHz sampling frequency, tape & reel

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Power Management ICs</b>				
<b>Automotive Linear Voltage Regulators</b>				
<b>Adjustable Standard Regulators</b>				
TLE4276DV	SP000300955	TLE4276DVATMA1	PG-TO252-5-11	adj. voltage, $I_{out} = 400$ mA, Inhibit, tape & reel
TLE4276GV	SP000306744	TLE4276GVATMA1	PG-TO263-5-1	
TLE4276-2DV	SP000409086	TLE42762DVATMA1	PG-TO252-5-11	adj. voltage, $I_{out} = 400$ mA, Inhibit, short circuit protected, overtemperature protected, tape & reel
TLE4276-2GV	SP000409088	TLE42762GVATMA1	PG-TO263-5-1	
TLE4276SV	SP000357986	TLE4276SVAKSA1	PG-TO220-5-12	adj. voltage, $I_{out} = 400$ mA, Inhibit, tube
TLE4276V	SP000357988	TLE4276VAKSA1	PG-TO220-5-11	adj. voltage, $I_{out} = 400$ mA, Inhibit, tube
TLE4284DV	SP000356994	TLE4284DVATMA1	PG-TO252-3-11	adj. voltage, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
TLF4277EL	SP000438718	TLF4277ELXUMA1	PG-SSOP-14EP	adj. voltage, $I_{out} = 200$ mA, short circuit protected, overtemperature protected, tape & reel

## 1.5 - 3.3 V Standard Regulators

TLE4295G V26	SP000294730	TLE4295GV26HTMA1	PG-SCT595-5	2.6 V, $I_{out} = 30$ mA, Reset, Power fail, tape & reel
▼ TLE4295G V26	SP000950324	TLE4295GV26HTSA1	PG-SCT595-5	
▼ TLE4295G V30	SP000950306	TLE4295GV30HTSA1	PG-SCT595-5	3 V, $I_{out} = 30$ mA, Reset, Power fail, tape & reel
▼ TLE4295G V33	SP000950292	TLE4295GV33HTSA1	PG-SCT595-5	3.3 V, $I_{out} = 30$ mA, Reset, Power fail, tape & reel
▼ TLE4296G V30	SP000950200	TLE4296GV30HTSA1	PG-SCT595-5	3 V, $I_{out} = 30$ mA, Inhibit, tape & reel
▼ TLE4296G V33	SP000950236	TLE4296GV33HTSA1	PG-SCT595-5	3.3 V, $I_{out} = 30$ mA, Inhibit, tape & reel
TLE4296-2G V33	SP000014332	TLE42962GV33HTSA1	PG-SCT595-5	3.3 V, $I_{out} = 30$ mA, Inhibit, reduced quiescent current, tape & reel
TLE4275D V33	SP000262517	TLE4275DV33ATMA1	PG-TO252-5-11	3.3 V, $I_{out} = 400$ mA, Reset, tape & reel
TLE4275G V33	SP000262524	TLE4275GV33ATMA1	PG-TO263-5-1	3.3 V, $I_{out} = 400$ mA, Reset, tape & reel
TLE4274D V33	SP000362357	TLE4274DV33ATMA1	PG-TO252-3-11	3.3 V, $I_{out} = 400$ mA, tape & reel
TLE4274GS V25	SP000395822	TLE4274GSV25HTSA1	PG-SOT223-4	2.5 V, $I_{out} = 400$ mA, tape & reel
TLE4274GS V33	SP000396456	TLE4274GSV33HTSA1	PG-SOT223-4	3.3 V, $I_{out} = 400$ mA, tape & reel
TLE4284D V15	SP000362366	TLE4284DV15ATMA1	PG-TO252-3-11	1.5 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
TLE4284D V18	SP000300973	TLE4284DV18ATMA1	PG-TO252-3-11	1.8 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
TLE4284D V26	SP000362369	TLE4284DV26ATMA1	PG-TO252-3-11	2.6 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
TLE4284D V33	SP000362370	TLE4284DV33ATMA1	PG-TO252-3-11	3.3 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
▼ TLE42994E V33	SP000678668	TLE42994EV33XUMA1	PG-SSOP-14 EP	3.3 V, $I_{out} = 150$ mA, Reset, early warning, Enable function, tape & reel
TLE42994GM V33	SP000678670	TLE42994GMV33XUMA1	PG-DSO-14-30	

## Automotive Linear Voltage Regulators

### 5 V Standard Regulators ( $\leq 200$ mA output current)

TLE4285G	SP000011850	TLE4285GHTSA1	PG-SCT595-5	5 V, $I_{out} = 15$ mA, Power fail, tape & reel
▼ TLE4286G	SP000950138	TLE4286GHTSA1	PG-SCT595-5	5 V, $I_{out} = 15$ mA, Inhibit, tape & reel
TLE4294G V50	SP000361641	TLE4294GV50HTSA1	PG-SCT595-5	5 V, $I_{out} = 30$ mA, Inhibit, reduced quiescent current, tape & reel
▼ TLE4295G V50	SP000950272	TLE4295GV50HTSA1	PG-SCT595-5	5 V, $I_{out} = 30$ mA, Reset, Power fail, tape & reel
▼ TLE4296G V50	SP000950240	TLE4296GV50HTSA1	PG-SCT595-5	5 V, $I_{out} = 30$ mA, Inhibit, tape & reel
TLE4296-2G V50	SP000014333	TLE42962GV50HTSA1	PG-SCT595-5	5 V, $I_{out} = 30$ mA, Inhibit, reduced quiescent current, tape & reel
TLE4264G	SP000300936	TLE4264GHTSA1	PG-SOT223-4	5 V, $I_{out} = 150$ mA, tape & reel
TLE42644G	SP000623992	TLE42644GHTSA2	PG-SOT223-4	5 V, $I_{out} = 100$ mA, tape & reel
TLE42344G	SP000719022	TLE42344GHTSA1	PG-SOT223-4	5 V, $I_{out} = 100$ mA, tape & reel
TLE42364G	SP000719024	TLE42364GHTMA1	PG-SOT223-4	5 V, $I_{out} = 100$ mA, Enable function, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
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**Power Management ICs****Automotive Linear Voltage Regulators****5 V Standard Regulators ( $\leq 200$  mA output current)**

(cont'd)

TLE4266G	SP000300941	TLE4266GHTMA1	PG-SOT223-4	5 V, $I_{out} = 150$ mA, Inhibit, tape & reel
TLE42664G	SP000624076	TLE42664GHTMA1	PG-SOT223-4	5 V, $I_{out} = 100$ mA, Inhibit, tape & reel
TLE4269G	SP000300944	TLE4269GXUMA1	PG-DSO-8-16	5 V, $I_{out} = 150$ mA, Reset, early warning, tape & reel
TLE4269GL	SP000306742	TLE4269GLXUMA1	PG-DSO-20-35	
TLE4269GM	SP000306726	TLE4269GMXUMA1	PG-DSO-14-30	5 V, $I_{out} = 150$ mA, Reset, early warning, tape & reel
TLE4279G	SP000306727	TLE4279GXUMA1	PG-DSO-8-16	
TLE4279GM	SP000306728	TLE4279GMXUMA1	PG-DSO-14-30	5 V, $I_{out} = 160$ mA, Reset, Watchdog, tape & reel
TLE4278G	SP000305157	TLE4278GXUMA1	PG-DSO-14-30	
TLE4262G	SP000306732	TLE4262GXUMA1	PG-DSO-20-6	5 V, $I_{out} = 200$ mA, Reset, Inhibit, tape & reel
TLE4262GM	SP000306723	TLE4262GMXUMA1	PG-DSO-14-30	
TLE4263G	SP000300935	TLE4263GXUMA1	PG-DSO-20-35	5 V, $I_{out} = 200$ mA, Reset, Inhibit, Watchdog, tape & reel
TLE4263GM	SP000300931	TLE4263GMXUMA1	PG-DSO-14-30	
TLE4263GS	SP000306724	TLE4263GSXUMA1	PG-DSO-8-16	
TLE4263-2ES	SP000366102	TLE42632ESXUMA1	PG-DSO-8-16 EP	
TLE42694E	SP000371264	TLE42694EXUMA1	PG-SSOP-14 EP	5 V, $I_{out} = 150$ mA, Reset, early warning, tape & reel
TLE42694G	SP000317802	TLE42694GXUMA1	PG-DSO-8-16	
TLE42694GM	SP000317800	TLE42694GMXUMA1	PG-DSO-14-30	5 V, $I_{out} = 150$ mA, Reset, early warning, tape & reel
TLE42794E	SP000371265	TLE42794EXUMA1	PG-SSOP-14 EP	
TLE42794G	SP000358646	TLE42794GXUMA1	PG-DSO-8-16	5 V, $I_{out} = 150$ mA, Reset, early warning, tape & reel
TLE42794GM	SP000358648	TLE42794GMXUMA1	PG-DSO-14-30	
TLE42994E	SP000371266	TLE42994EXUMA1	PG-SSOP-14 EP	5 V, $I_{out} = 150$ mA, Reset, early warning, Enable function, tape & reel
TLE42994G	SP000253851	TLE42994GXUMA1	PG-DSO-8-16	
TLE42994GM	SP000253853	TLE42994GMXUMA1	PG-DSO-14-30	5 V, $I_{out} = 180$ mA, Reset, Watchdog, tape & reel
TLE4268G	SP000300943	TLE4268GXUMA1	PG-DSO-20-35	
TLE4268GS	SP000306725	TLE4268GSXUMA1	PG-DSO-8-16	5 V, $I_{out} = 200$ mA, Reset, Watchdog, tape & reel
TLE4678EL	SP000677644	TLE4678ELXUMA1	PG-SSOP-14	
TLE4678GM	SP000358635	TLE4678GMXUMA1	PG-DSO-14-30	5 V, $I_{out} = 200$ mA, Reset, Watchdog, tape & reel
TLE4699E	SP000358639	TLE4699EXUMA1	PG-SSOP-14 EP	
TLE4699GM	SP000479486	TLE4699GMXUMA1	PG-DSO-14-30	5 V, $I_{out} = 200$ mA, Reset, early warning, Enable function, tape & reel

**5 V Standard Regulators ( $> 200$  mA output current)**

TLE4287G	SP000362372	TLE4287GXUMA1	PG-DSO-14-8	5 V, $I_{out} = 250$ mA, Reset, Inhibit, tape & reel
TLE4267G	SP000357710	TLE4267GATMA1	PG-TO263-7-1	5 V, $I_{out} = 400$ mA, Reset, Inhibit, tape & reel
TLE4267GM	SP000306737	TLE4267GMXUMA1	PG-DSO-14-30	
TLE4267	SP000306738	TLE4267AKSA1	PG-TO220-7-3	5 V, $I_{out} = 400$ mA, Reset, Inhibit, tube
TLE4267S	SP000011771	TLE4267SNKSA1	P-TO220-7-230	
TLE4274 V50	SP000269680	TLE4274V50AKSA1	PG-TO220-3-1	5 V, $I_{out} = 400$ mA, tube
TLE4274D V50	SP000300149	TLE4274DV50ATMA1	PG-TO252-3-11	5 V, $I_{out} = 400$ mA, tape & reel
TLE4274G V50	SP000300975	TLE4274GV50ATMA1	PG-TO263-3-1	
TLE4276 V50	SP000357970	TLE4276V50AKSA1	PG-TO220-5-11	5 V, $I_{out} = 400$ mA, Inhibit, tube
TLE4276D V50	SP000306323	TLE4276DV50ATMA1	PG-TO252-5-11	5 V, $I_{out} = 400$ mA, Inhibit, tape & reel
TLE4276G V50	SP000306743	TLE4276GV50ATMA1	PG-TO263-5-1	
TLE4276S V50	SP000357981	TLE4276SV50AKSA1	PG-TO220-5-12	5 V, $I_{out} = 400$ mA, Inhibit, tape & reel
TLE4275	SP000306747	TLE4275AKSA1	PG-TO220-5-11	5 V, $I_{out} = 400$ mA, Reset, tube
TLE4275S	SP000306748	TLE4275SAKSA1	PG-TO220-5-12	
TLE4275D	SP000300949	TLE4275DATMA1	PG-TO252-5-11	5 V, $I_{out} = 400$ mA, Reset, tape & reel
TLE4275G	SP000297816	TLE4275GATMA1	PG-TO263-5-1	
TLE4290D	SP000360722	TLE4290DATMA1	PG-TO252-5-11	5 V, $I_{out} = 450$ mA, Power Good, tape & reel
TLE4290G	SP000362375	TLE4290GATMA1	PG-TO263-5-1	

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
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## Power Management ICs

### Automotive Linear Voltage Regulators

#### 5 V Standard Regulators (> 200 mA output current)

(cont'd)

▼ TLE4291E	SP000754260	TLE4291EXUMA1	PG-SSOP-14 EP	5 V, $I_{out} = 450$ mA, Reset, tape & reel
TLE4270	SP000011792	TLE4270NKSA1	P-TO220-5-11	5 V, $I_{out} = 550$ mA, Reset, tube
TLE4270-2S	SP000304936	TLE42702SAKSA1	PG-TO220-5-12	
TLE4270-2D	SP000304937	TLE42702DATMA1	PG-TO252-5-11	5 V, $I_{out} = 550$ mA, Reset, tape & reel
TLE4270-2G	SP000304929	TLE42702GATMA1	PG-TO263-5-1	
TLE4271-2	SP000306836	TLE42712AKSA1	PG-TO220-7-11	5 V, $I_{out} = 550$ mA, Reset, Inhibit, Watchdog, tube
TLE4271-2S	SP000306320	TLE42712SAKSA1	PG-TO220-7-12	
TLE4271-2G	SP000300945	TLE42712GATMA1	PG-TO263-7-1	5 V, $I_{out} = 550$ mA, Reset, Inhibit, Watchdog, tape & reel
TLE4284D V50	SP000362371	TLE4284DV50ATMA1	PG-TO252-3-11	5 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
TLE42754D	SP000354517	TLE42754DATMA1	PG-TO252-5-11	5 V, $I_{out} = 450$ mA, Reset, overtemperature protected, tape & reel
TLE42754G	SP000354518	TLE42754GATMA1	PG-TO263-5-1	
TLE42754E	SP000441598	TLE42754EXUMA1	PG-SSOP-14EP	
TLE4675D	SP000315008	TLE4675DATMA1	PG-TO252-5-11	5 V, $I_{out} = 400$ mA, Reset, tape & reel
TLE4675G	SP000315009	TLE4675GATMA1	PG-TO263-5-1	

#### 8.5 V and 10 V Standard Regulators

TLE4266GS V10	SP000317563	TLE4266GSV10HTMA1	PG-SOT223-4	10 V, $I_{out} = 120$ mA, Inhibit, tape & reel
TLE4274G V10	SP000362359	TLE4274GV10ATMA1	PG-TO263-3-1	10 V, $I_{out} = 400$ mA, tape & reel
TLE4274G V85	SP000362362	TLE4274GV85ATMA1	PG-TO263-3-1	8.5 V, $I_{out} = 400$ mA, tape & reel
TLE4274 V10	SP000011811	TLE4274V10NKSA1	P-TO220-3-1	10 V, $I_{out} = 400$ mA, Inhibit, tube
TLE4274 V85	SP000361644	TLE4274V85AKSA1	PG-TO220-3-1	8.5 V, $I_{out} = 400$ mA, tube
TLE4276S V85	SP000357984	TLE4276SV85AKSA1	PG-TO220-5-12	8.5 V, $I_{out} = 400$ mA, Inhibit, tape & reel
TLE4276 V10	SP000011834	TLE4276V10NKSA1	P-TO220-5-3	10 V, $I_{out} = 400$ mA, Inhibit, tube
TLE4276G V85	SP000357978	TLE4276GV85ATMA1	PG-TO263-5-1	8.5 V, $I_{out} = 400$ mA, Inhibit, tape & reel
TLE4276G V10	SP000300972	TLE4276GV10ATMA1	PG-TO263-5-1	10 V, $I_{out} = 400$ mA, Inhibit, tape & reel

#### Adjustable Ultra Low Quiescent Regulators

TLE42764DV	SP000427326	TLE42764DVATMA1	PG-TO252-5-11	adjustable voltage, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, Enable function, tape & reel
TLE42764GV	SP000427324	TLE42764GVATMA1	PG-TO263-5-1	

#### 2.6 V and 3.3 V Ultra Low Quiescent Regulators

TLE4266-2GS V33	SP000317555	TLE42662GSV33HTMA1	PG-SOT223-4	3.3 V, $I_{out} = 150$ mA, Inhibit, tape & reel
TLE42744D V33	SP000644994	TLE42744DV33ATMA1	PG-TO252-3-11	3.3 V, $I_{out} = 400$ mA, tape & reel
TLE42744G V33	SP000619810	TLE42744GV33ATMA1	P-TO263-3-1	
TLE42744GS V33	SP000653070	TLE42744GSV33HUMA1	PG-SOT223-4	
TLE4299GM V33	SP000300974	TLE4299GMV33XUMA1	PG-DSO-14-30	3.3 V, $I_{out} = 150$ mA, Inhibit, early warning, tape & reel
TLE4299G V33	SP000306730	TLE4299GV33XUMA1	PG-DSO-8-16	2.6 V, $I_{out} = 180$ mA, Inhibit, Reset, Window Watchdog, tape & reel
TLE7273-2G V26	SP000369461	TLE72732GV26XUMA1	PG-DSO-14-4	

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Description
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**Power Management ICs****Automotive Linear Voltage Regulators  
2.6 V and 3.3 V Ultra Low Quiescent Regulators**

(cont'd)

TLE7273-2G V33	SP000369462	TLE72732GV33XUMA1	PG-DSO-14-4	3.3 V, $I_{out} = 180$ mA, Inhibit, Reset, Window Watchdog, tape & reel
TLE7278-2G V26	SP000369465	TLE72782GV26XUMA1	PG-DSO-14-4	2.6 V, $I_{out} = 180$ mA, Inhibit, Reset, Watchdog, tape & reel
TLE7278-2G V33	SP000369466	TLE72782GV33XUMA1	PG-DSO-14-4	3.3 V, $I_{out} = 180$ mA, Inhibit, Reset, Watchdog, tape & reel
TLE7279-2G V26	SP000369469	TLE72792GV26XUMA1	PG-DSO-14-4	2.6 V, $I_{out} = 180$ mA, Inhibit, Reset, early warning, tape & reel
TLE7279-2G V33	SP000369470	TLE72792GV33XUMA1	PG-DSO-14-4	3.3 V, $I_{out} = 180$ mA, Inhibit, Reset, early warning, tape & reel
▼ TLF2931G V33	SP000848486	TLF2931GV33XUMA1	PG-DSO-8	3.3 V, $I_{out} = 100$ mA, mirror-image insertion protection, overtemperature shutdown, tape & reel

**5 V Ultra Low Quiescent Current Regulators**

TLE4264-2G	SP000305245	TLE42642GHTSA1	PG-SOT223-4	5 V, $I_{out} = 150$ mA, tape & reel
TLE4266-2G	SP000416714	TLE42662GHTMA1	PG-SOT223-4	5 V, $I_{out} = 150$ mA, Inhibit, tape & reel
TLE42744E V50	SP000540120	TLE42744EV50XUMA1	PG-SSOP-14 EP	5 V, $I_{out} = 400$ mA, tape & reel
TLE42744D V50	SP000461576	TLE42744DV50ATMA1	PG-TO252-3-11	
TLE42744G V50	SP000463264	TLE42744GV50ATMA1	PG-TO263-3-1	5 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, Enable function, tape & reel
TLE42764D V50	SP000636156	TLE42764DV50ATMA1	PG-TO252-5-11	
TLE42764G V50	SP000636154	TLE42764GV50ATMA1	PG-TO263-5-1	5 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, Enable function, tape & reel
TLE42764E V50	SP000707564	TLE42764EV50XUMA1	PG-SSOP-14 EP	
TLE7270-2D	SP000457356	TLE72702DATMA1	PG-TO252-5-1	5 V, $I_{out} = 300$ mA, Reset, tape & reel
TLE7270-2E	SP000457382	TLE72702EXUMA1	PG-SSOP-14 EP	
TLE7270	SP000055309	TLE7270GNTMA1	P-TO263-5-1	
TLE7270-2G	SP000457384	TLE72702GATMA1	PG-TO263-5-1	5 V, $I_{out} = 300$ mA, Reset, Inhibit, tape & reel
TLE7272-2D	SP000468052	TLE72722DATMA1	PG-TO252-5-1	
TLE7272-2E	SP000457386	TLE72722EXUMA1	PG-SSOP-14 EP	5 V, $I_{out} = 180$ mA, Inhibit, Reset, Window Watchdog, tape & reel
TLE7273-2E V50	SP000369460	TLE72732EV50XUMA1	PG-SSOP-14 EP	
TLE7273-2G V50	SP000369463	TLE72732GV50XUMA1	PG-DSO-14-4	5 V, $I_{out} = 300$ mA, short circuit protected, tape & reel
TLE7274D	SP000055849	TLE7274DNTMA1	P-TO252-5-1	
TLE7274-2D	SP000468054	TLE72742DATMA1	PG-TO252-3	5 V, $I_{out} = 300$ mA, short circuit protected, tape & reel
TLE7274-2E	SP000457388	TLE72742EXUMA1	PG-SSOP-14 EP	
TLE7274-2G	SP000468056	TLE72742GATMA1	PG-TO263-3	5 V, $I_{out} = 300$ mA, Inhibit, tape & reel
TLE7276-2D	SP000457394	TLE72762DATMA1	PG-TO252-5-1	
TLE7276-2E	SP000457396	TLE72762EXUMA1	PG-SSOP-14 EP	5 V, $I_{out} = 180$ mA, Inhibit, Reset, Watchdog, tape & reel
TLE7278-2E V50	SP000369464	TLE72782EV50XUMA1	PG-SSOP-14 EP	
TLE7278-2G V50	SP000369467	TLE72782GV50XUMA1	PG-DSO-14-4	5 V, $I_{out} = 180$ mA, Inhibit, Reset, early warning, tape & reel
TLE7279-2E V50	SP000369468	TLE72792EV50XUMA1	PG-SSOP-14 EP	
TLE7279-2G V50	SP000369471	TLE72792GV50XUMA1	PG-DSO-14-4	5 V, $I_{out} = 100$ mA, mirror-image insertion protection, overtemperature shutdown, tape & reel
▼ TLF2931G V50	SP000848484	TLF2931GV50XUMA1	PG-DSO-8	

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
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## Power Management ICs

### Automotive Constant Current Relay Driver

▼ TLE4247EL40	SP000558508	TLE4247EL40XUMA1	PG-DSO-8 EP	Coil/relay driver, reduces relay hold current to min. 40 mA, overtemperature protected, tape & reel
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### Multiple Regulators

TLE4470G	SP000306745	TLE4470GXUMA1	PG-DSO-20-6	5 V + 5 V, $I_{out} = 180 \text{ mA}/350 \text{ mA}$ , Reset, early warning, tape & reel
TLE4470GS	SP000306746	TLE4470GSXUMA1	PG-DSO-14-4	5 V + adj. voltage, $I_{out} = 180 \text{ mA}/350 \text{ mA}$ , Reset, early warning, tape & reel
TLE4471G	SP000305246	TLE4471GAUMA1	PG-DSO-20-12	5 V + 5 V + 5 V, 2 tracked outputs 100/50 mA, Reset, Watchdog, tape & reel
TLE4473G V53	SP000557254	TLE4473GV53AUMA1	PG-DSO-12-6	5 V + 3.3 V, $I_{out} = 180 \text{ mA}/300 \text{ mA}$ , Watchdog, tape & reel
TLE4473G V55-2	SP000295344	TLE4473GV552AUMA1	PG-DSO-12-11	5 V + 5 V, $I_{out} = 190 \text{ mA}/300 \text{ mA}$ , Reset, Inhibit, Watchdog, tape & reel
TLE4476D	SP000362383	TLE4476DATMA1	PG-TO252-5-11	5 V + 3.3 V, $I_{out} = 350 \text{ mA}/430 \text{ mA}$ , tape & reel
TLE7469G V52	SP000316703	TLE7469GV52AUMA1	PG-DSO-12-4	5 V + 2.6 V, $I_{out} = 300 \text{ mA}/320 \text{ mA}$ , Inhibit, Reset, Watchdog, tape & reel
TLE7469G V53	SP000316704	TLE7469GV53AUMA1	PG-DSO-12-4	5 V + 3.3 V, $I_{out} = 300 \text{ mA}/320 \text{ mA}$ , Inhibit, Reset, Watchdog, tape & reel

### Voltage Tracker

TLE4250-2G	SP000255450	TLE42502GHTSA1	PG-SCT595-5	adj. voltage, $I_{out} = 50 \text{ mA}$ , Inhibit, tape & reel
TLE4251D	SP000258501	TLE4251DATMA1	PG-TO252-5-1	adj. voltage, $I_{out} = 400 \text{ mA}$ , Inhibit, tape & reel
TLE4251G	SP000306322	TLE4251GATMA1	PG-TO263-5-1	adj. voltage, $I_{out} = 250 \text{ mA}$ , Inhibit, tape & reel
TLE4252D	SP000300938	TLE4252DATMA1	PG-TO252-5-1	adj. voltage, $I_{out} = 250 \text{ mA}$ , Inhibit, tape & reel
TLE4252G	SP000393071	TLE4252GATMA1	PG-TO263-5-1	adj. voltage, $I_{out} = 250 \text{ mA}$ , Inhibit, tape & reel
TLE4253GS	SP000253854	TLE4253GSXUMA1	PG-DSO-8-10	adj. voltage, $I_{out} = 250 \text{ mA}$ , Inhibit, tape & reel
▼ TLE4253E	SP000484230	TLE4253EXUMA1	PG-DSO-8 EP	adj. voltage, $I_{out} = 70 \text{ mA}$ , Inhibit, tape & reel
TLE4254GA	SP000297354	TLE4254GAXUMA1	PG-DSO-8-10	adj. voltage, $I_{out} = 70 \text{ mA}$ , Inhibit, status output to indicate short circuits at the output, tape & reel
TLE4254GS	SP000297353	TLE4254GSXUMA1	PG-DSO-8-10	adj. voltage, $I_{out} = 70 \text{ mA}$ , Inhibit, status output to indicate short circuits at the output, tape & reel
▼ TLE4254EJ A	SP000358630	TLE4254EJAXUMA1	PG-DSO-8 EP	adj. voltage, $I_{out} = 70 \text{ mA}$ , Inhibit, tape & reel
▼ TLE4254EJ S	SP000358633	TLE4254EJSXUMA1	PG-DSO-8 EP	adj. voltage, $I_{out} = 70 \text{ mA}$ , Inhibit, status output to indicate short circuits at the output, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Power Management ICs</b>				
<b>Automotive DC/DC Converter</b>				
TLE6361G	SP000013297	TLE6361GNUMA1	P-DSO-36-12	Multi-voltage processor power supply, Buck converter, 5.5 V, Reset, Watchdog, SPI controlled, tape & reel
TLE6365G	SP000317609	TLE6365GXUMA1	PG-DSO-8-3	Step-down voltage regulator with reset, input voltage range 8 V to 40 V, tape & reel
TLE6368G2	SP000656590	TLE6368G2AUMA1	PG-DSO-36-26	Multi-voltage processor power supply, 5.5 V, Reset, Watchdog, tape & reel
TLE6368G2	SP000881176	TLE6368G2AUMA2	PG-DSO-36-26	
TLE6389-2GV	SP000317611	TLE63892GVXUMA1	PG-DSO-14-1	Step-down DC/DC controller with external P-channel MOSFET, adjustable output voltage, early warning, tape & reel
TLE6389-2G V50	SP000317610	TLE63892GV50XUMA1	PG-DSO-14-1	Step-down DC/DC controller with external P-channel MOSFET, 5 V, RO-hysteresis, early warning, tape & reel
TLE6389-3G V50	SP000317612	TLE63893GV50XUMA1	PG-DSO-14-1	Step-down DC/DC controller with external P-channel MOSFET, 5 V, RO-hysteresis 1 V, early warning, tape & reel
TLE6711G	SP000317613	TLE6711GXUMA1	PG-DSO-14-1	Boost/buck multifunctional voltage regulator, Watchdog, tape & reel
TLE6711GL	SP000317614	TLE6711GLXUMA1	PG-DSO-20-36	
TLE7368E	SP000307244	TLE7368EXUMA1	PG-DSO-36-24	Next generation micro controller supply, 3 linear post regulators (5 V, 3.3/2.6 V, 1.5 V), selectable stand-by-Vreg (1.0) and 2 voltage trackers (5 V), Reset, Watchdog, tape & reel
▼ TLE7368-2E	SP000768086	TLE73682EXUMA1	PG-DSO-36	Next generation micro controller supply, 3 linear post regulators (5 V, 3.3/2.6 V, 1.2 V), selectable stand-by-Vreg (1.0) and 2 voltage trackers (5 V), Reset, Watchdog, tape & reel
▼ TLE7368-3E	SP000794336	TLE73683EXUMA1	PG-DSO-36	Next generation micro controller supply, 3 linear post regulators (5 V, 3.3/2.6 V, 1.3 V), selectable stand-by-Vreg (1.0) and 2 voltage trackers (5 V), Reset, Watchdog, tape & reel
TLE8366EV	SP000297388	TLE8366EVXUMA1	PG-DSO-8-27 EP	1.8 A DC/DC step-down voltage regulator, adj. voltage, tape & reel
TLE8366E V33	SP000549726	TLE8366EV33XUMA1	PG-DSO-8-27 EP	3.3 V, 1.8 A DC/DC step-down voltage regulator, tape & reel
TLE8366E V50	SP000550310	TLE8366EV50XUMA1	PG-DSO-8-27 EP	5 V, 1.8 A DC/DC step-down voltage regulator, tape & reel
TLE8386EL	SP000426670	TLE8386ELXUMA1	PG-SSOP-14 EP	Smart Boost controller, adj. switching frequency, 5 V, Enable function, tape & reel
TLE8386-2EL	SP000685670	TLE83862ELXUMA1	PG-SSOP-14 EP	Basic smart Boost controller, adj. switching frequency, 5 V, Enable function, tape & reel
▼ TLF50281EL	SP000819928	TLF50281ELXUMA1	PG-SSOP-14 EP	2.2 MHz step-down regulator 500 mA, low quiescent current, 5 V, tape & reel

**Industrial DC/DC Converter**

▼ IFX80471SK V	SP000858402	IFX80471SKVXUMA1	PG-DSO-14	adj. voltage, 2.3 mA DC/DC step-down voltage regulator, 360-kHz switching frequency, tape & reel
▼ IFX80471 V50	SP000858404	IFX80471SKV50XUMA1	PG-DSO-14	5 V, 2.3 mA DC/DC step-down voltage regulator, 360-kHz switching frequency, tape & reel
IFX9104EJV	SP000619696	IFX91041EJVXUMA1	PG-DSO-8-27	1.8 A DC/DC step-down voltage regulator, adj. voltage, 370-kHz switching frequency, tape & reel
IFX9104EJ V33	SP000660594	IFX91041EJV33XUMA1	PG-DSO-8-27	3.3 V, 1.8 A DC/DC step-down voltage regulator, 370-kHz switching frequency, tape & reel
IFX9104EJ V50	SP000660596	IFX91041EJV50XUMA1	PG-DSO-8-27	5 V, 1.8 A DC/DC step-down voltage regulator, 370-kHz switching frequency, tape & reel

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Power Management ICs</b>				
<b>Industrial Linear</b>				
TLE4305G	SP000362379	TLE4305GXUMA1	PG-DSO-8-1	High precision bipolar regulator, breakdown voltage up to 45 V, tape & reel

## 8.5 V and 10 V Linear Voltage Regulators for Industrial and Consumer Applications

IFX25001TS V10	SP000623070	IFX25001TSV10AKSA1	PG-TO220-3-1	10 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, tube
IFX25001TC V10	SP000623084	IFX25001TCV10ATMA1	PG-TO263-3	10 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, tape & reel
IFX25001TS V85	SP000623094	IFX25001TSV85AKSA1	PG-TO220-3-1	8.5 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, tube
IFX25001TC V85	SP000623112	IFX25001TCV85ATMA1	PG-TO263-3	8.5 V, $I_{out} = 400$ mA, overtemperature protected, short circuit protected, tape & reel

## 5 V Linear Voltage Regulators for Industrial and Consumer Applications

IFX20001MB V50	SP000623428	IFX20001MBV50HTSA1	PG-SCT595-5	5 V, $I_{out} = 30$ mA, Inhibit, overtemperature protected, tape & reel
IFX24401EL V50	SP000639070	IFX24401ELV50XUMA1	PG-SSOP-14	5 V, $I_{out} = 300$ mA, short circuit protected, overtemperature protected, tape & reel
IFX24401TE V50	SP000660598	IFX24401TEV50ATMA1	PG-TO252-5	5 V, $I_{out} = 300$ mA, short circuit protected, overtemperature protected, tape & reel
IFX25001TS V50	SP000624196	IFX25001TSV50AKSA1	PG-TO220-3-1	5 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, tube
IFX25001TC V50	SP000611474	IFX25001TCV50ATMA1	PG-TO263-3	5 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, tape & reel
IFX25001TF V50	SP000614696	IFX25001TFV50ATMA1	PG-TO252-3	
IFX27001TF V50	SP000622990	IFX27001TFV50ATMA1	PG-TO252-3	5 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
IFX2931G V50	SP000431776	IFX2931GV50XUMA1	PG-DSO-8	5 V, $I_{out} = 100$ mA, overtemperature protected, tape & reel
IFX81171ME V50	SP000357832	IFX8117MEV50HTMA1	PG-SOT223-4	5 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel

## Adjustable Linear Voltage Regulators for Industrial and Consumer Applications

▼ IFX1117ME V	SP000892488	IFX1117MEVHTMA1	PG-SOT223-4	adj. voltage, $I_{out} = 1$ A, short circuit protected, 2 % accuracy, overtemperature protected, tape & reel
IFX81171ME V	SP000357833	IFX8117MEVHTMA1	PG-SOT223-4	adj. voltage, $I_{out} = 1$ A, short circuit protected, 1 % accuracy overtemperature protected, tape & reel

## 5 V and 15 V Linear Voltage Regulators for Industrial and Consumer Applications

IFX21004TN V51	SP000841766	IFX21004TNV51AKSA1	PG-TO220-5	5 V and 15 V dual output, $I_{out} = 100$ mA and 30 mA, short circuit protected, overtemperature protected, tube
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## 1.5 - 3.3 V Linear Voltage Regulators for Industrial and Consumer Applications

▼ IFX1117ME V33	SP000892486	IFX1117MEV33HTMA1	PG-SOT223-4	3.3 V, $I_{out} = 1$ A, short circuit protected, 2 % accuracy, overtemperature protected, tape & reel
IFX20001MB V33	SP000623344	IFX20001MBV33HTSA1	PG-SCT595-5	3.3 V, $I_{out} = 30$ mA, Inhibit, overtemperature protected, tape & reel
IFX25001ME V33	SP000623166	IFX25001MEV33HTSA1	PG-SOT223-4	3.3 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, tape & reel
IFX25001ME V25	SP000623288	IFX25001MEV25HTSA1	PG-SOT223-4	2.5 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
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**Power Management ICs****1.5 - 3.3 V Linear Voltage Regulators for Industrial and Consumer Applications**

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IFX25001TF V33	SP000623156	IFX25001TFV33ATMA1	PG-TO252-3	3.3 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, tape & reel
IFX27001TF V18	SP000624104	IFX27001TFV18ATMA1	PG-TO252-3	1.8 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
IFX27001TF V26	SP000624182	IFX27001TFV26ATMA1	PG-TO252-3	2.6 V, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel
IFX27001TF V33	SP000624112	IFX27001TFV33ATMA1	PG-TO252-3	3.3 V, $I_{out} = 1$ A, short circuit protected, 3 % accuracy, overtemperature protected, tape & reel
IFX2931G V33	SP000539026	IFX2931GV33XUMA1	PG-DSO-8	3.3 V, $I_{out} = 100$ mA, overtemperature protected, tape & reel
IFX81171ME V33	SP000357831	IFX8117MEV33HTMA1	PG-SOT223-4	3.3 V, $I_{out} = 1$ A, short circuit protected, 1 % accuracy, overtemperature protected, tape & reel

**5 V Ultra Low Quiescent Current Linear Voltage Regulators for Industrial and Consumer Applications**

IFX25401TB V50	SP000623298	IFX25401TBV50ATMA1	PG-TO263-5	5 V, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, tape & reel
IFX25401TE V50	SP000623308	IFX25401TEV50ATMA1	PG-TO252-3	
▼ IFX4949SJ	SP000663314		PG-DSO-8	5 V, $I_{out} = 100$ mA, short circuit protected, overtemperature protected, 2 % accuracy, tape & reel

**Adjustable Ultra Low Quiescent Current Linear Voltage Regulators for Industrial and Consumer Applications**

IFX25401TBV	SP000611478	IFX25401TBVATMA1	PG-TO263-5	adj. voltage, $I_{out} = 400$ mA, short circuit protected, overtemperature protected, tape & reel
IFX25401TEV	SP000614698	IFX25401TEVATMA1	PG-TO252-3	
IFX27001TFV	SP000624090	IFX27001TFVATMA1	PG-TO252-3	adj. voltage, $I_{out} = 1$ A, short circuit protected, overtemperature protected, tape & reel

**Industrial Constant Current Relay Driver**

▼ IFX52001EJ	SP000911866	IFX52001EJXUMA1	PG-DSO-8 EP	Coil/relay driver, reduces relay hold current to min. 40 mA, overtemperature protected, tape & reel
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**Voltage Tracker for Industrial and Consumer Applications**

IFX21401MB	SP000614692	IFX21401MBHTSA1	PG-SCT595-5	adj. voltage, $I_{out} = 50$ mA, overtemperature protected, tape & reel
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SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$ V	$R_{DS(on)}$ $\Omega$	$I_D$ A	$f_s$ kHz

## Power Management ICs

### Integrated Power ICs 650 V/67 kHz

ICE2B365	SP000013999	ICE2B365CKLA1	DIP-8	650	0.45	3.0	67
ICE3B2565	SP000015077	ICE3B2565FKLA1	DIP-8	650	0.65	2.5	67
ICE3BR0665J	SP000417880	ICE3BR0665JCKLA1	DIP-8	650	0.65	2.5	67
ICE3BR0665J	SP000849306	ICE3BR0665JXKLA1	DIP-8	650	0.65	2.5	67
ICE2B265	SP000013998	ICE2B265CKLA1	DIP-8	650	0.92	2.0	67
ICE3B2065	SP000015080	ICE3B2065HKLA1	DIP-8	650	0.92	2.0	67
ICE3B2065J	SP000390355	ICE3B2065JFKLA1	DIP-8	650	0.92	2.0	67
ICE3BR1765J	SP000426504	ICE3BR1765JCKLA1	DIP-8	650	1.7	1.5	67
ICE3BR1765J	SP000849302	ICE3BR1765JXKLA1	DIP-8	650	1.7	1.5	67
ICE3B1565	SP000015081	ICE3B1565FKLA1	DIP-8	650	1.7	1.5	67
ICE3B1565J	SP000098876	ICE3B1565JFKLA1	DIP-8	650	1.7	1.5	67
ICE3B1065	SP000015076	ICE3B1065FKLA1	DIP-8	650	2.95	1.0	67
ICE2B165	SP000013997	ICE2B165CKLA1	DIP-8	650	3.0	1.0	67
ICE2B0565	SP000014234	ICE2B0565CKLA1	DIP-8	650	4.7	0.5	67
ICE3B0565	SP000014967	ICE3B0565CKLA1	DIP-8	650	4.7	0.5	67
ICE3B0565J	SP000064685	ICE3B0565JFKLA1	DIP-8	650	4.7	0.5	67
ICE3BR4765J	SP000358120	ICE3BR4765JCKLA1	DIP-8	650	4.7	0.5	67
ICE3BR4765J	SP000849300	ICE3BR4765JXKLA1	DIP-8	650	4.7	0.5	67
ICE3B0365	SP000014968	ICE3B0365XKLA1	DIP-8	650	6.45	0.3	67
ICE3B0365J	SP000064720	ICE3B0365JCKLA1	DIP-8	650	6.45	0.3	67
ICE3B0365J	SP000849310	ICE3B0365JXKLA1	DIP-8	650	6.45	0.3	67
ICE3BR1765JZ	SP000706896	ICE3BR1765JZHKL1	DIP-7	650	1.7	1.5	67
ICE3BR1765JZ	SP000706894	ICE3BR1765JZXKLA1	DIP-7	650	1.7	1.5	67
ICE3BR4765JZ	SP000736812	ICE3BR4765JZHKL1	DIP-7	650	4.7	0.5	67
ICE3BR4765JZ	SP000736810	ICE3BR4765JZXKLA1	DIP-7	650	4.7	0.5	67
ICE2B765P2	SP000014701	ICE2B765P2BKSA1	TO-220	650	0.45	7.0	67
ICE3BR0665JF	SP000839844	ICE3BR0665JFBKLA1	TO-220	650	0.59	2.5	67
ICE3BR0665JZ	SP000740644	ICE3BR0665JZHKL1	TO-220	650	0.65	2.5	67
ICE3BR0665JZ	SP000717568	ICE3BR0665JZXKLA1	TO-220	650	0.65	2.5	67
ICE3B5565P	SP000016817	ICE3B5565PBKSA1	TO-220	650	0.79	5.5	67
ICE3B5065P	SP000016815	ICE3B5065PBKSA1	TO-220	650	0.95	5.0	67
ICE3BR1065JF	SP000842986	ICE3BR1065JFXKSA2	TO-220	650	1.0	3.0	67
▼ ICE3BR1465JF	SP000758768	ICE3BR1465JFXKSA1	TO-220	650	1.44	2.0	67
ICE3B3565P	SP000016813	ICE3B3565PBKSA1	TO-220	650	1.55	3.5	67
ICE3B3065P	SP000016811	ICE3B3565PBKSA1	TO-220	650	2.1	3.0	67
ICE3BR2565JF	SP000839846	ICE3BR2565JFXKSA2	TO-220	650	2.5	1.8	67
ICE3B2065P	SP000016809	ICE3B2065PBKSA1	TO-220	650	3.0	2.0	67
ICE3B0565JG	SP000077217	ICE3B0565JGXUMA1	SO-16/12	650	4.7	0.5	67
ICE3BR4765JG	SP000716242	ICE3BR4765JGXUMA1	SO-16/12	650	4.7	0.5	67
ICE3B0365JG	SP000078899	ICE3B0365JGAUMA1	SO-16/12	650	6.45	0.3	67

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)}$	$I_D$	$f_s$
				V	$\Omega$	A	kHz

## Power Management ICs

Integrated Power ICs  
650 V/100 kHz

ICE2A365	SP000013504	ICE2A365CKLA1	DIP-8	650	0.45	3.0	100
ICE3A2565	SP000015075	ICE3A2565FKLA1	DIP-8	650	0.65	2.5	100
ICE2A265	SP000013503	ICE2A265FKLA1	DIP-8	650	0.92	2.0	100
ICE3A2065	SP000015082	ICE3A2065FKLA1	DIP-8	650	0.92	2.0	100
ICE3A2065ELJ	SP000477348	ICE3A2065ELJFKLA1	DIP-8	650	0.92	2.0	100
ICE3A1565	SP000015083	ICE3A1565FKLA1	DIP-8	650	1.7	1.5	100
ICE3A1065LJ	SP000205733	ICE3A1065LJHKLA1	DIP-8	650	2.9	1.0	100
ICE3A1065ELJ	SP000430884	ICE3A1065ELJFKLA1	DIP-8	650	2.9	1.0	100
ICE2A165	SP000013769	ICE2A165CKLA1	DIP-8	650	3.0	1.0	100
ICE3A0565	SP000015073	ICE3A0565FKLA1	DIP-8	650	4.7	0.5	100
ICE2A0565	SP000014233	ICE2A0565CKLA1	DIP-8	650	4.7	0.5	100
ICE3A0365	SP000015072	ICE3A0365FKLA1	DIP-8	650	6.45	0.3	100
ICE3A2065Z	SP000017045	ICE3A2065ZHKL1	DIP-7	650	0.92	2.0	100
ICE2A0565Z	SP000014235	ICE2A0565ZHKL1	DIP-7	650	4.7	0.5	100
ICE3A0565Z	SP000017044	ICE3A0565ZHKL1	DIP-7	650	4.7	0.5	100
ICE2A765P2	SP000014566	ICE2A765P2BKSA1	TO-220	650	0.45	7.0	100
ICE3A5565P	SP000016976	ICE3A5565PBKSA1	TO-220	650	0.79	5.5	100
ICE3A5065P	SP000016978	ICE3A5065PBKSA1	TO-220	650	0.95	5.0	100
ICE3A3565P	SP000016980	ICE3A3565PBKSA1	TO-220	650	0.95	3.5	100
ICE3A0365P	SP000016982	ICE3A3065PBKSA1	TO-220	650	2.1	3.0	100
ICE3A2065P	SP000016984	ICE3A2065PBKSA1	TO-220	650	3.0	2.0	100
ICE2A0565G	SP000015061	ICE2A0565GXUMA1	SO-16/12	650	4.7	0.5	100

## 800 V/65 kHz/100 kHz/Quasi

ICE3AR0680JZ	SP000848680	ICE3AR0680JZXKLA1	DIP-7	800	0.62	4.0	100
ICE3BR0680JZ	SP000775720	ICE3BR0680JZXKLA1	DIP-7	800	0.62	4.0	65
ICE2QR0680Z	SP000774406	ICE2QR0680ZXKLA1	DIP-7	800	0.62	2.2	NA
ICE2A280Z	SP000014237	ICE2A280ZHKL1	DIP-7	800	0.8	2.0	100
ICE3AR2280JZ	SP000730002	ICE3AR2280JZXKLA1	DIP-7	800	2.26	1.5	100
▼ ICE3AR2280CJZ	SP000954580	ICE3AR2280CJZXKLA1	DIP-7	800	2.26	1.5	100
ICE3BR2280JZ	SP000775698	ICE3BR2280JZXKLA1	DIP-7	800	2.26	1.5	65
ICE2QR2280Z	SP000774322	ICE2QR2280ZXKLA1	DIP-7	800	2.26	4.9	NA
ICE2A180Z	SP000014236	ICE2A180ZHKL1	DIP-7	800	3.0	1.0	100
ICE2QR4780Z	SP000782770	ICE2QR4780ZXKLA1	DIP-7	800	4.7	0.58	NA
▼ ICE3AR4780JZ	SP000839212	ICE3AR4780JZXKLA1	DIP-7	800	4.7	0.58	100
▼ ICE3AR10080JZ	SP000775770	ICE3AR10080JZXKLA1	DIP-7	800	10.0	0.44	100
ICE2A380P2	SP000089417	ICE2A380P2BKSA1	TO-220	800	1.89	3.0	100
ICE2QR2280G	SP000775242	ICE2QR2280GXUMA1	SO-12	800	2.26	0.81	NA

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data			
				$V_{DS}$	$R_{DS(on)}$	$I_D$	$f_s$
				V	$\Omega$	A	kHz

## Power Management ICs

### Integrated Power ICs

#### Quasi

ICE2QR0665	SP000453680	ICE2QR0665CKLA1	DIP-8	650	0.65	2.5	NA
ICE2QR1765	SP000785528	ICE2QR1765HKLA1	DIP-8	650	1.7	1.5	NA
ICE2QR1765	SP000717522	ICE2QR1765XKLA1	DIP-8	650	1.7	1.5	NA
ICE2QR4765	SP000644950	ICE2QR4765XKLA1	DIP-8	650	1.7	0.5	NA
ICE2QR4765	SP000785534	ICE2QR4765HKLA1	DIP-8	650	4.7	0.5	NA
▼ ICE2QR0665Z	SP000895806	ICE2QR0665ZXKLA1	DIP-7	650	0.65	2.5	NA
▼ ICE2QR1065Z	SP000905490	ICE2QR1065ZXKLA1	DIP-7	650	0.92	2.0	NA
▼ ICE2QR1765Z	SP000905534	ICE2QR1765ZXKLA1	DIP-7	650	1.7	1.5	NA
▼ ICE2QR4765Z	SP000905544	ICE2QR4765ZXKLA1	DIP-7	650	4.7	0.5	NA
▼ ICE2QR0665G	SP000907678	ICE2QR0665GXUMA1	SO-16/12	650	0.65	2.5	NA
▼ ICE2QR1765G	SP000905550	ICE2QR1765GXUMA1	SO-16/12	650	1.7	1.5	NA
▼ ICE2QR4765G	SP000907668	ICE2QR4765GXUMA1	SO-16/12	650	4.7	0.5	NA

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Data		
				Switching Frequency Range kHz	$I_{Gate}$ A	$V_{CC(max)}$ V

**Power Management ICs****Power Control ICs****SMPS IC - Quasi**

▼ ICE2QS01	SP000269328	ICE2QS01CKLA1	DIP-8	<150	-	27
ICE2QS03	SP000717562	ICE2QS03XKLA1	DIP-8	52	-	27
ICE2QS03	SP000774924	ICE2QS03HKLA1	DIP-8	52	-	27
TDA4605-2	SP000011728	TDA46052HKLA1	DIP-8	<200	-	15.5
ICE2QS02G	SP000718534	ICE2QS02GXUMA1	SO-8	<150	-	27
ICE2QS03G	SP000775042	ICE2QS03GXUMA1	SO-8	<150	-	27
TDA16846	SP000011731	TDA16846HKLA1	DIP-14	20 - 250	-	16
TDA16846-2	SP000013854	TDA168462HKLA1	DIP-14	20 - 250	-	16
TDA16846-2G GEG	SP000081008	TDA168462GGEGHUMA1	DIP-14	20 - 250	-	16
TDA16846G GEG	SP000081009	TDA16846GGEGHUMA1	SO-14	20 - 250	-	16

**SMPS IC - PFC & CCM (continuous conduction mode) ICs**

ICE1PCS01	SP000014681	ICE1PCS01HKLA1	DIP-8	50 - 250	-1.5/2	21
ICE1PCS02	SP000056162	ICE1PCS02CKLA1	DIP-8	65	-1.5/2	21
ICE2PCS01	SP000094396	ICE2PCS01HKLA1	DIP-8	50 - 250	-1.5/2	25
ICE2PCS02	SP000094398	ICE2PCS02HKLA1	DIP-8	65	-1.5/2	25
ICE2PCS02	SP000741324	ICE2PCS02XKLA1	DIP-8	65	-1.5/2	25
ICE2PCS03	SP000366372	ICE2PCS03HKLA1	DIP-8	100	-1.5/2	25
ICE2PCS04	SP000366373	ICE2PCS04HKLA1	DIP-8	133	-1.5/2	25
ICE2PCS05	SP000433592	ICE2PCS05HKLA1	DIP-8	136	-1.5/2	25
▼ ICE2PCS06	SP000433590	ICE2PCS06HKLA1	DIP-8	65	-1.5/2	25
▼ ICE2PCS06	SP000745682	ICE2PCS06XKLA1	DIP-8	65	-1.5/2	25
ICE1PCS01G	SP000081001	ICE1PCS01GHUMA1	SO-8	50 - 250	-1.5/2	21
▼ ICE1PCS02G	SP000056164	ICE1PCS02GFUMA1	SO-8	65	-1.5/2	22
ICE2PCS01G	SP000717682	ICE1HS01GAUMA1	SO-8	50 - 250	-1.5/2	25
ICE2PCS02G	SP000718524	ICE2PCS02GXUMA1	SO-8	65	-1.5/2	25
ICE2PCS03G	SP000718526	ICE2PCS03GXUMA1	SO-8	100	-1.5/2	25
ICE2PCS04G	SP000718528	ICE2PCS04GXUMA1	SO-8	133	-1.5/2	25
ICE2PCS05G	SP000718530	ICE2PCS05GXUMA1	SO-8	136	-1.5/2	25
▼ ICE2PCS06G	SP000718532	ICE2PCS06GXUMA1	SO-8	65	-1.5/2	25
ICE3PCS02G	SP000639564	ICE3PCS02GXUMA1	SO-8	65	-1.5/2	25
ICE3PCS03G	SP000639568	ICE3PCS03GXUMA1	SO-8	65	-1.5/2	26
ICE3PCS01G	SP000639560	ICE3PCS01GXUMA1	SO-14	65	-1.5/2	25

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Data		
				Switching Frequency Range kHz	$I_{Gate}$ A	$V_{CC(max)}$ V

## Power Management ICs

### Power Control ICs

#### SMPS IC - PFC & DCM (discontinuous conduction mode) ICs

TDA4862	SP000011734	TDA4862HKLA1	DIP-8	variable	0.5	19
TDA4863	SP000013654	TDA4863HKLA1	DIP-8	variable	0.5	20
TDA4863-2	SP000014792	TDA4863BKLA1	DIP-8	variable	0.5	20
TDA4862G GEG	SP000697958	TDA4862GGEGXUMA2	SO-8	variable	0.5	19
TDA4863G	SP000697962	TDA4863GXUMA2	SO-8	variable	0.5	19
TDA4863-2G	SP000697960	TDA48632GXUMA2	SO-8	variable	0.5	20

#### SMPS IC - PWM-FF + PFC (CCM) Combi ICs

ICE1CS02	SP000444084	ICE1CS02FKLA1	DIP-16	65	-1.5/2	26
ICE1CS02G	SP000783614	ICE1CS02GXUMA2	SO-16	65	-1.5/2	25
TDA16888G GEG	SP000087990	TDA16888GGEGHUMA1	SO-20	15 - 250	-1.0/1.5	19

#### SMPS IC - PWM-FF (latched and frequency jitter mode) ICs

ICE3AS03LJG	SP000783724	ICE3AS03LJGXUMA1	SO-8	100	-0.17/0.39	27
ICE3BS03LJG	SP000783726	ICE3BS03LJGXUMA1	SO-8	65	-0.17/0.39	27
ICE3GS03LJG	SP000812044	ICE3GS03LJGXUMA1	SO-8	130	-0.17/0.39	27

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Power Management ICs</b>				
<b>Resonant Mode Controller</b>				
ICE1HS01G	SP000710658	ICE1HS01GXUMA1	SO-8	Half-bridge LLC resonant controller with two gate outputs, 600-kHz switching frequency, minimum number of external components, high accuracy oscillator, tape & reel
ICE2HS01G	SP000793084	ICE2HS01GXUMA1	SO-20	High performance mode controller for half-bridge LLC resonant controller with four gate outputs and synchronous rectification drives, 30-kHz - 1-MHz switching frequency, tape & reel
<b>Fan Speed Controller ICs</b>				
TDA21801	SP000697956	TDA21801XUMA1	SO-8	Fan speed controller for SMPS, adjustable fan speed, fan On/OFF, over-temperature protection (OTP), tape & reel
<b>Integrated Power Stages and DrMOS</b>				
TDA21211	SP000464906	TDA21211AUMA1	IQFN-40	High-performance DrMOS, power MOSFET and driver in one package, max. peak current of 35 A, input voltage range +5 V to +30 V, tape & reel
TDA21220	SP000746644	TDA21220AUMA1	IQFN-40	High-performance DrMOS, power MOSFET and driver in one package, max. peak current of 50 A, input voltage range +4.5 V to +16 V, tape & reel
<b>MOSFET Driver IC</b>				
PX3516ADDG-R4	SP000704414	PX3516ADDGR4XTMA1	SuperS08	Dual MOSFET driver for synchronous rectified bridge converters, adjust. high-side and low-side MOSFET gate drive voltages for optimal efficiency, 50 A, tape & reel

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
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## Power Management ICs

### Function and Industrial ICs

#### Proximity Switches

TCA305G	SP000697964	TCA305GXLLA1		ICs for inductive proximity switches, tube
TCA305G GEG	SP000783570	TCA305GGEGXUMA1		ICs for inductive proximity switches, tape & reel
TCA355G	SP000697950	TCA355GXLLA1		ICs for inductive proximity switches, tube
TCA355G GEG	SP000744922	TCA355GGEGXUMA1		ICs for inductive proximity switches, tape & reel
TCA505BG GEG	SP000242373	TCA505BGGEGXUMA1		ICs for inductive proximity switches with short-circuit protection, tape & reel

## Power Driver ICs

FZL4146G	SP000087989	FZL4146GGEGHUMA1		Short-circuit signaling, four driver circuits for driving power transistors, turn-ON threshold setting from 1.5 to 7 V
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## Phase Control

TCA785	SP000011719	TCA785HKLA1	P-DIP-16-1	Phase control, tube
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## Audible Signal ICs

SAE0800	SP000011614	SAE800HKLA1	P-DIP-8-1	Programmable single-, dual- and triple-tone gong, tube
SAE0800G	SP000697948	SAE800GXLLA1		

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Automotive Transceivers and SBCs</b>				
<b>Body System Basis Chips</b>				
TLE6263-3G	SP000314997	TLE62633GXUMA1	PG-DSO-28-27	Low speed CAN universal SBC with fault tolerant CAN-transceiver, 5-V voltage regulator, wake-up inputs, Reset generator, 8-bit SPI, tape & reel
TLE7263E	SP000075929	TLE7263EXUMA1	PG-DSO-36-14	Integrated high speed CAN, LIN, LDO and HS switch, tape & reel
TLE8261E	SP000317792	TLE8261EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, no LIN, LDO and SPI, 1 limp home output, tape & reel
TLE8261-2E	SP000454466	TLE82612EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, no LIN, LDO and SPI, 3 limp home output, tape & reel
TLE8262E	SP000317793	TLE8262EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 1LIN, LDO and SPI, 1 limp home output, tape & reel
TLE8262-2E	SP000454468	TLE82622EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 1LIN, LDO and SPI, 3 limp home output, tape & reel
TLE8263E	SP000317795	LE8263EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 2LIN, LDO and SPI, 1 limp home output, tape & reel
TLE8263-2E	SP000379937	TLE82632EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 2LIN, LDO and SPI, 3 limp home output, tape & reel
TLE8264E	SP000317796	TLE8264EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 3LIN, LDO and SPI, 1 limp home output, tape & reel
TLE8264-2E	SP000379938	TLE82642EXUMA1	PG-DSO-36-38	Universal system basis IC (HERMES), integrated high speed CAN, 3LIN, LDO and SPI, 3 limp home output, tape & reel

**Stand-alone Transceivers**

TLE6250G	SP000316311	TLE6250GXUMA1	PG-DSO-8-16	High speed CAN-transceiver according to ISO 11898, tape & reel
TLE6250G V33	SP000382100	TLE6250GV33XUMA1	PG-DSO-8-16	High speed CAN-transceiver according to ISO 11898, for 3.3 V microcontroller
TLE6251DS	SP000294173	TLE6251DSXUMA1	PG-DSO-8-3	High speed CAN-transceiver with bus wake-up, compatible to 3.3 V and 5 V logic input levels, tape & reel
TLE6251G	SP000082094	TLE6251GNTMA1	P-DSO-14-13	High speed CAN-transceiver with bus wake-up and bus failure detection, tape & reel
TLE6251-2G	SP000407102	TLE62512GXUMA1	PG-DSO-14-24	High speed CAN-transceiver 1-Mbit/s transmission rate, with bus wake-up and bus failure detection, for mixed supply CAN networks, tape & reel
▼ TLE6251-3G	SP000823130	TLE62513GXUMA1	PG-DSO-14	High speed CAN-transceiver, 1-Mbit/s transmission rate, with bus wake-up and bus failure detection, for mixed supply CAN networks, no split pin, tape & reel
TLE8250G	SP000551642	TLE8250GXUMA1	PG-DSO-8-16	High speed CAN-transceiver according ISO 11898-3, fully compatible to TLE6250G, receive-only mode input, not Enable input, for large CAN networks with high data rates, tape & reel
TLE8250GVIO	SP000691818	TLE8250GVIOXUMA1	PG-DSO-8-16	High speed CAN-transceiver according ISO 11898-3, fully compatible to TLE6250G, not Enable input, for large CAN networks with high data rates, tape & reel
TLE6254-3G	SP000316313	TLE62543GXUMA1	PG-DSO-14-13	Low speed fault tolerant CAN-transceiver according ISO 11898-3, tape & reel

SMD = Surface Mounted Device

# Power Semiconductors

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Automotive Transceivers and SBCs</b>				
<b>Stand-alone Transceivers</b> (cont'd)				
TLE6254-3G	SP000692476	TLE62543GXUMA2	PG-DSO-14-13	Low speed fault tolerant CAN-transceiver according ISO 11898-3, tape & reel
TLE6255G	SP000012141	TLE6255GNTMA1	P-DSO-14-2	Single wire CAN-transceiver, tape & reel
▼ IFX1021SJ	SP000870896	IFX1021SJXUMA1	PG-DSO-8	Single wire LIN-transceiver, 20-kbit/s transmission rate, bus wake-up capability, wake-up inputs, tape & reel
▼ IFX1040SJ	SP000938316	IFX1040SJXUMA1	PG-DSO-8	High speed CAN-transceiver according ISO 11898-3/-5, 1-Mbit/s transmission rate, bus wake-up capability, wake-up inputs, tape & reel
IFX1050G	SP000613990	IFX1050GXUMA1	PG-DSO-8-16	High speed CAN-transceiver, 1-Mbit/s transmission rate, no bus wake-up capability, no wake-up inputs, tape & reel
▼ IFX1050G VIO	SP000885580	IFX1050GVIOXUMA1	PG-DSO-8	High speed CAN-transceiver according ISO/DIS 11898, 1-Mbit/s transmission rate, no bus wake-up capability, no wake-up inputs, tape & reel
IFX1054G	SP000613756	IFX1054GXUMA1	PG-DSO-14-13	Low speed fault tolerant CAN-transceiver, 125-Kbit/s transmission rate, bus wake-up capability, wake-up inputs, tape & reel
TLE6258-2G	SP000297762	TLE62582GXUMA1	PG-DSO-8-3	Single wire LIN-transceiver, low speed, tape & reel
TLE6259-2G	SP000316315	TLE62592GXUMA1	PG-DSO-8-16	Single wire LIN-transceiver, suitable for LIN protocol, tape & reel
TLE7259-2GE	SP000299877	TLE72592GEXUMA1	PG-DSO-8-3	Enhanced LIN-transceiver with sleep mode/inhibit output, compatible to 3.3 V and 5 V logic input levels, specific LIN1.3 and LIN2.1 compliant version, tape & reel
TLE7259-2GE	SP000692470	TLE72592GEXUMA2	PG-DSO-8-3	Enhanced LIN-transceiver with sleep mode/inhibit output, compatible to 3.3 V and 5 V logic input levels, specific LIN1.3 and LIN2.1 compliant version, tape & reel
TLE7259-2GU	SP000304077	TLE72592GUXUMA1	PG-DSO-8-3	Enhanced LIN-transceiver with sleep mode/inhibit output, compatible to 3.3 V and 5 V logic input levels, specific SAEJ2602 compliant version, tape & reel
TLE7269G	SP000104277	TLE7269GXUMA1	PG-DSO-14-24	Twin LIN-transceiver, compatible to 3.3 V and 5 V logic input levels, specific SAEJ2602 compliant version, tape & reel
TLE8458E	SP000359988	TLE8458EXUMA1	PG-SSOP-14EP	LIN-transceiver with integrated low drop voltage regulator (LIN-LDO), 5 V, 20 Kbit/s (LIN2.1 compliant), tape & reel
TLE8458E V33	SP000359989	TLE8458EV33XUMA1	PG-SSOP-14EP	LIN-transceiver with integrated low drop voltage regulator (LIN-LDO), 3.3 V, 20 Kbit/s (LIN2.1 compliant), tape & reel
TLE8458EU	SP000359992	TLE8458EUXUMA1	PG-SSOP-14EP	LIN-transceiver with integrated low drop voltage regulator (LIN-LDO), 5 V, 10.4 Kbit/s (SAEJ2602 compliant), tape & reel
TLE8458EU V33	SP000359993	TLE8458EUV33XUMA1	PG-SSOP-14EP	LIN-transceiver with integrated low drop voltage regulator (LIN-LDO), 3.3 V, 10.4 Kbit/s (SAEJ2602 compliant), tape & reel
TLE8458G	SP000359994	TLE8458GXUMA1	PG-DSO-8-16	LIN-transceiver with integrated low drop voltage regulator (LIN-LDO), 5 V, 20 Kbit/s (LIN2.1 compliant), tape & reel
TLE8458G V33	SP000359996	TLE8458GV33XUMA1	PG-DSO-8-16	LIN-transceiver with integrated low drop voltage regulator (LIN-LDO), 3.3 V, 20 Kbit/s (LIN2.1 compliant), tape & reel
TLE8458GU	SP000359997	TLE8458GUXUMA1	PG-DSO-8-16	LIN-transceiver with integrated low drop voltage regulator (LIN-LDO), 5 V, 10.4 Kbit/s (SAEJ2602 compliant), tape & reel
TLE8458GU V33	SP000359999	TLE8458GUV33XUMA1	PG-DSO-8-16	LIN-transceiver with integrated low drop voltage regulator (LIN-LDO), 3.3 V, 10.4 Kbit/s (SAEJ2602 compliant), tape & reel

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
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**Automotive Transceivers and SBCs****Embedded Power**

TLE7810G	SP000313890	TLE7810GXUMA1	PG-DSO-28-6	Integrated double low-side switch for automotive applications, high-side/LED driver, hall supply, wake-up inputs and LIN communication with embedded MCU (16-Kbyte flash), tape & reel
TLE7824G	SP000264461	TLE7824GXUMA1	PG-DSO-28-38	Integrated double low-side switch, high-side/LED driver, hall supply, wake-up inputs and LIN communication with embedded MCU (24-Kbyte flash), tape & reel
TLE7826G	SP000264462	TLE7826GXUMA1	PG-DSO-28-38	Integrated double low-side switch, high-side/LED driver, hall supply, wake-up inputs and LIN communication with embedded MCU (32-Kbyte flash), tape & reel

**Specific Automotive ICs****Application Specific Standard Products for Restraint Systems**

TLE6710Q	SP000013708	TLE6710QNUMA1	P-MQFP-64-1	Power supply communication four squib driver airbag system ICs, tape & reel
TLE6712G	SP000013710	TLE6712GNTMA1	P-DSO-24-10	Two squib airbag firing ICs, tape & reel
TLE6714G	SP000013709	TLE6714GNTMA1	P-DSO-28-1	Quad squib airbag firing ICs, tape & reel
TLE7729T	SP000312977	TLE7729TXUMA1	PG-TSSOP-28	Quad channel airbag satellite receiver ICs (SatRIC™), tape & reel

**Application Specific Standard Products for Vehicle Stability - Braking (ABS/ESP)**

■ TLE6212	SP000451438	TLE6212XUMA1	PG-LQFP-64-1	System-IC for ABS/Traction Control/Electronic Stability Control, tape & reel
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**Application Specific Standard Products for Gasoline Direct Injection**

TLE6270R	SP000469954	TLE6270RAUMA1	PG-DSO-36	Quad low side injector driver for gasoline direct injection, tape & reel
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SMD = Surface Mounted Device





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## RF & Protection Devices

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Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
				$V_{\text{CEO}}$ V	$I_{\text{C}}$ mA	$f_{\text{T}}$ GHz	$G$ dB	at $f$ MHz

**RF Bipolar Transistors****Low Noise Si Transistors up to 2.5 GHz**

BFS17	3k*	SP000010958	BFS17E6327HTSA1	SOT23	15	25	2.0	–	–
BFP181	3k*	SP000011013	BFP181E7764HTSA1	SOT143	12	20	8.0	16.5	1800
BFP182R	3k*	SP000011016	BFP182E7764HTSA1	SOT143R	12	35	8.0	15	1800
BFP183	3k*	SP000011018	BFP183E7764HTSA1	SOT143	12	65	8.0	20	900
BFP183W	3k*	SP000745244	BFP183WE6327BTSA1	SOT343	12	65	8.0	20	900
BFR181	3k*	SP000011047	BFR181E6327HTSA1	SOT23	12	20	8.0	18	900
BFR181W	3k*	SP000750418	BFR181WH6327XTSA1	SOT323	12	20	8.0	18	900
BFR182	3k*	SP000011051	BFR181WH6327XTSA1	SOT23	12	35	8.0	18	900
BFR182W	3k*	SP000750420	BFR182WH6327XTSA1	SOT323	12	35	8.0	18	900
BFR183	3k*	SP000011054	BFR183E6327HTSA1	SOT23	12	65	8.0	18.5	900
BFR183W	3k*	SP000750422	BFR183WH6327XTSA1	SOT323	12	65	8.0	18.5	900
BFR340F	3k*	SP000750426	BFR340FH6327XTSA1	TSFP-3-1	6.0	10	14.0	16	1800
BFR340L3	15k*	SP000013558	BFR340L3E6327XTMA1	TSLP-3-7	6.0	10	14.0	17	1800
BFR35AP	3k*	SP000011060	BFR35APE6327HTSA1	SOT23	12	30	4.9	15	900
BFR360F	3k*	SP000750428	BFR360FH6327XTSA1	TSFP-3-1	6.0	35	14.0	15.5	1800
BFR360F	3k*	SP000750442	BFR360FH6765XTSA1	TSFP-3-1	6.0	35	14.0	15.5	1800
BFR360L3	15k*	SP000013561	BFR360L3E6765XTMA1	TSLP-3-1	6.0	35	14.0	16.5	1800
BFR92P	3k*	SP000011062	BFR92PE6327HTSA1	SOT23	15	30	5.0	15	900
BFR92W	3k*	SP000750446	BFR92WH6327XTSA1	SOT323	15	30	5.0	15.5	900
BFS17P	3k*	SP000011073	BFS17PE6327HTSA1	SOT23	15	25	2.5	–	–
BFS17S	3k*	SP000750448	BFS17SH6327XTSA1	SOT363	15	25	2.5	–	–
BFS17W	3k*	SP000750450	BFS17WH6327XTSA1	SOT323	15	25	2.5	–	–
BFS481	3k*	SP000750462	BFS481H6327XTSA1	SOT363	12	20	8	19	900
BFS483	3k*	SP000750464	BFS483H6327XTSA1	SOT363	12	65	8	19	900

\* order unit

SMD = Surface Mounted Device

# RF & Protection Devices

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_{\text{CEO}}$	$I_{\text{C}}$	$f_{\text{T}}$	$G$	at	$f$
				V	mA	GHz	dB		MHz

## RF Bipolar Transistors

### Low Noise Si Transistors up to 5 GHz

BFP405	3k*	SP000745254	BFP405H6327XTSA1	SOT343	4.5	12	25	22	1800
BFP405	3k*	SP000745256	BFP405H6740XTSA1	SOT343	4.5	12	25	22	1800
BFP405F	3k*	SP000745258	BFP405FH6327XTSA1	TSFP-4-1	4.5	12	25	22	1800
BFP410	3k*	SP000762244	BFP410H6327XTSA1	SOT343	4.5	35	25	21	1800
BFP420	3k*	SP000745260	BFP420H6327XTSA1	SOT343	4.5	35	25	22	1800
BFP420	3k*	SP000745264	BFP420H6740XTSA1	SOT343	4.5	35	25	22	1800
BFP420	3k*	SP000745266	BFP420H6801XTSA1	SOT343	4.5	35	25	22	1800
BFP420	10k*	SP000745262	BFP420H6433XTMA1	SOT343	4.5	35	25	22	1800
BFP420F	3k*	SP000745268	BFP420FH6327XTSA1	TSFP-4-1	4.5	35	25	22	1800
BFP460	3k*	SP000745276	BFP460H6327XTSA1	SOT343	4.5	50	22	17.5	1800
BFP520	3k*	SP000745280	BFP520H6327XTSA1	SOT343	2.5	40	45	23	1800
BFP520F	3k*	SP000745282	BFP520FH6327XTSA1	TSFP-4-1	2.5	40	45	23	1800
BFP540	3k*	SP000745288	BFP540H6327XTSA1	SOT343	4.5	80	29	21	1800
BFP540ESD	3k*	SP000745298	BFP540ESDH6327XTSA1	SOT343	4.6	80	29	21	1800
BFP540FESD	3k*	SP000745300	BFP540FESDH6327XTSA1	TSFP-4-1	4.7	80	29	21	1800

### Ultra Low Noise SiGe:C Transistors for use up to 12 GHz

BFP620	3k*	SP000745302	BFP620H7764XTSA1	SOT343	2.3	80	65	21.5	1800
BFP620F	3k*	SP000745304	BFP620FH7764XTSA1	TSFP-4-1	2.3	80	65	21.5	1800
BFP640	3k*	SP000745306	BFP640H6327XTSA1	SOT343	4.0	50	40	24	1800
BFP640F	3k*	SP000750404	BFP640FH6327XTSA1	TSFP-4-1	4.0	50	40	24	1800
								12	6000
BFP640ESD	3k*	SP000785482	BFP640ESDH6327XTSA1	SOT343	4.1	50	46	26.5	1800
								14.5	5500
BFP640FESD	3k*	SP000890034	BFP640FESDH6327XTSA1	TSFP-4-1	4.1	50	46	27	1800
								14	5500
BFP720	3k*	SP000750410	BFP720H6327XTSA1	SOT343	4.0	80	45	26.5	1800
								19.5	5500
BFP720F	3k*	SP000750412	BFP720FH6327XTSA1	TSFP-4-1	4.0	80	45	26.5	1800
								19.5	5500
BFP720ESD	3k*	SP000785484	BFP720ESDH6327XTSA1	SOT343	4.2	25	43	27	1800
								19	6000
BFP720FESD	3k*	SP000853562	BFP720FESDH6327XTSA1	TSFP-4-1	4.0	25	45	27	1800
								21.5	6000
▼ BFP740	3k*	SP000750414	BFP740H6327XTSA1	SOT343	4.0	30	42	27.5	1800
								17	6000
BFP740ESD	3k*	SP000785486	BFP740FESDH6327XTSA1	SOT343	4.0	35	47	27	1800
								18	6000
BFP740FESD	3k*	SP000890036	BFP740FESDH6327XTSA1	TSFP-4-1	4.0	30	47	27	1800
								19.5	6000
▼ BFR720L3RH	3k*	SP000463888	BFR720L3RHE6327XTSA1	TSLP-3-9	4.0	25	45	26.5	1800
								19.5	6000
BFR740L3RH	15k*	SP000252393	BFR740L3RHE6327XTSA1	TSLP-3-9	4.0	30	42	24.5	1800
								15	5500
▼ BFR750L3RH	15k*	SP000252588	BFR750L3RHE6327XTSA1	TSLP-3-9	4.0	90	37	118	1800
								8	6000

\* order unit

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
				$V_{\text{CEO}}$ V	$I_{\text{C}}$ mA	$f_{\text{T}}$ GHz	$G$ dB	at $f$ MHz

## RF Bipolar Transistors

## High Linearity Si- and SiGe:C Transistors for use up to 6 GHz

BF771	3k*	SP000010967	BF771E6327HTSA1	SOT23	12	80	7.0	13.5	900
BF799	3k*	SP000010973	BF799E6327HTSA1	SOT23	20	35	1.1	–	–
BF799W	3k*	SP000734406	BF799WH6327XTSA1	SOT323	20	35	1.1	–	–
BFP193	3k*	SP000011024	BFP193E6327HTSA1	SOT143	12	80	8.0	15	900
BFP193W	3k*	SP000745248	BFP193WH6327XTSA1	SOT343	12	80	8.0	20	900
BFP196	3k*	SP000011027	BFP196E6327HTSA1	SOT143	12	100	7.2	16	900
BFP196W	3k*	SP000745250	BFP196WH6327XTSA1	SOT343	12	100	7.2	16	900
BFP450	3k*	SP000745270	BFP450H6327XTSA1	SOT343	4.5	100	24	14	1800
BFP450	10k*	SP000745272	BFP450H6433XTMA1	SOT343	4.5	100	24	14	1800
BFP650	3k*	SP000750406	BFP650H6327XTSA1	SOT343	4.0	150	36	21.5 11	1800 6000
BFP650F	3k*	SP000750408	BFP650FH6327XTSA1	TSFP-4-1	4.0	150	42	21.5 10.5	1800 5500
BFP740F	3k*	SP000750416	BFP740FH6327XTSA1	TSFP-4-1	4.0	160	42	27.5 19	1800 5500
BFQ19S	1k*	SP000011042	BFP183E7764HTSA1	SOT89	15	75	5.1	11.8	900
BFR106	3k*	SP000011044	BFR106E6327HTSA1	SOT23	15	100	4.9	12.5	900
BFR193	3k*	SP000011056	BFR193E6327HTSA1	SOT23	12	80	8.0	14.5	900
BFR193F	3k*	SP000750424	BFR193FH6327XTSA1	TSFP-3	12	80	8.0	14.5	900
BFR193W	3k*	SP000734404	BFR193WH6327XTSA1	SOT323	12	80	8.0	15.5	900
BFR193L3	3k*	SP000013557	BFR193L3E6327XTMA1	TSFP-3-1	12	150	8.0	19	900
BFR380F	15k*	SP000750444	BFR380FH6327XTSA1	TSFP-3-1	6.0	80	14.0	13.5	1800
BFR380L3	15k*	SP000013562	BFR380L3E6327XTMA1	TSFP-3-1	6.0	80	14.0	13.5	1800
BFR93A	3k*	SP000011066	BFR93AE6327HTSA1	SOT23	12	50	6.0	13.5	900
BFR93AW	3k*	SP000734402	BFR93AWH6327XTSA1	SOT323	12	50	6.0	15	900

\* order unit

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# RF & Protection Devices

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_{\text{CEO}}$ V	$I_c$ mA	$f_T$ GHz	$G$ dB	at	$f$ MHz

## RF Bipolar Transistors

### Biased Low Noise RF Transistors

▼ BGR405	3k*	SP000750466	BGR405H6327XTSA1	SOT343	4.5	12	0.4	7.0	1800
▼ BGR420	3k*	SP000750468	BGR420H6327XTSA1	SOT343	4.5	25	0.4	15.5	1800

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )	
				$V_s$ V	$I_D$ mA	$V_{\text{drop}}$ V	vs $V_s$ %/V

### Active Bias Controller for RF Transistors

BCR400W	3k*	SP000745168	BCR400WH6327XTSA1	SOT343	18	10	0.65	5
BCR410W	3k*	SP000745924	BCR410WH6327XTSA1	SOT343	18	0.5	0.11	2

Type	Ordering Code	Orderable Part Number	Packages	Operation Ranges		Characteristics	
				$f$ GHz	$V_{\text{dd}}$ V	Insertion Loss dB	Isolation dB

## RF Switches

### SPDT RF Switches

BGS12AL7-4	7.5k*	SP000427434	BGS12AL74E6327XTSA1	TSLP-7-4	0.03 - 3.0	2.4 - 2.8	0.4	32
BGS12AL7-6	7.5k*	SP000531668	BGS12AL76E6327XTMA1	TSLP-7-6	0.03 - 3.0	2.4 - 2.8	0.4	32

### SP5T RF Switches

▼ BGS15AN16	7.5k*	SP000795644	BGS15AN16E6327XTSA1	TSNP-16	0.1 - 3.0	2.85 - 4.7	0.35	38
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Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
				$V_D$	$I_D$	$NF$	$G$	$f$
				V	mA	dB	dB	MHz

## RF MMICs

## Broadband and Driver Amplifiers

BGA416	3k*	SP000013607	BGA416E6327HTSA1	SOT143	6.0	20	1.2	17	900
▼ BGA420	3k*	SP000753504	BGA420H6327XTSA1	SOT343	6.0	15	2.2	17	1000
BGA427	3k*	SP000753506	BGA427H6327XTSA1	SOT343	6.0	25	2.2	18.5	1800
BGA612	3k*	SP000753510	BGA612H6327XTSA1	SOT343	2.8	80	2.0	17.5	1000
BGA614	3k*	SP000753512	BGA614H6327XTSA1	SOT343	2.9	80	2.0	19	1000
BGA616	3k*	SP000753514	BGA616H6327XTSA1	SOT343	4.5	80	2.5	19	1000

## Low Noise Amplifiers

## GPS LNA

BGA231L7	7.5k*	SP000871206	BGA231L7E6327XTSA1	TSLP-7-1	3.6	20	0.75	16	1575
BGA428	3k*	SP000753508	BGA428H6327XTSA1	SOT363	4.0	12	1.4	20	1800
BGA461	7.5k*	SP000463628	BGA461E6327XTSA1	TSLP-7-1	3.6	10	1.0	19	1575
BGA615L7	7.5k*	SP000016766	BGA615L7E6327XTSA1	TSLP-7-1	3.5	10	0.9	18	1500
BGA622L7	7.5k*	SP000017535	BGA622L7E6327XTSA1	TSLP-7-1	3.5	10	1.1	18	2140
BGA715L7	7.5k*	SP000430024	BGA715L7E6327XTSA1	TSLP-7-1	3.6	10	0.75	20	1575
▼ BGA725L6	15k*	SP000942752	BGA725L6E6327XTSA1	TSLP-6-2	3.6	20	0.65	19	1575
BGA915N7	7.5k*	SP000849368	BGA915N7E6327XTMA1	TSNP-7-6	3.6	20	0.7	15.5	1575
▼ BGA925L6	15k*	SP000902116	BGA925L6E6327XTSA1	TSLP-6-2	3.6	20	0.65	15.8	1575
▼ BGM1032N7	3k*	SP000884092	BGM1032N7E6327XUSA1	TSNP-7-10	3.6	25	1.65	14.8	1575
▼ BGM1033N7	3k*	SP000884092	BGM1033N7E6327XUSA1	TSNP-7-10	3.6	25	1.65	14.8	1575
▼ BGM1034N7	3k*	SP000906264	BGM1034N7E6327XUSA1	TSNP-7-10	3.6	25	1.7	17	1575
▼ BGM1043N7	3k*	SP000974632	BGM1043N7E6327XUSA1	TSNP-7-10	3.6	25	1.5	15.1	1575
▼ BGM1044N7	3k*	SP000979276	BGM1044N7E6327XUSA1	TSNP-7-10	3.6	25	1.55	17	1575
▼ BGM732N16	3k*	SP000700198	BGM732N16E6327XUSA1	TSNP-16-3	3.6	25	1.7	18.3	1575
BGM781N11	7.5k*	SP000684730	BGM781N11E6327XUSA1	TSNP-11-2	3.6	25	1.7	18.6	1575

## Mobile TV LNA

BGA728L7	7.5k*	SP000409848	BGA728L7E6327XTSA1	TSLP-7-1	3.6	20	1.3	15.75	470
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## WLAN/WiMax LNA

BGA622	3k*	SP000753516	BGA622H6820XTSA1	SOT343	3.5	10	1.0	14.8	1575
BGA628L7	7.5k*	SP000529594	BGA628L7E6327XTMA1	TSLP-7-1	3.5	10	0.9	16	2400
BGA758L7	7.5k*	SP000671390	BGA758L7E6327XTMA1	TSLP-7-1	4.0	12	1.0	11	5500

\* order unit

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## RF & Protection Devices

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				$V_D$ V	$I_D$ mA	NF dB	G dB	f MHz

### RF MMICs

#### UMTS/3G/4G LNA

BGA711L7	7.5k*	SP000417112	BGA711L7E6327XTSA1	TSLP-7-1	3.6	10	1.1	17	2100
▼ BGA713L7	7.5k*	SP000846762	BGA713L7E6327XTSA1	TSLP-7-1	3.6	10	1.1	15.5	700
BGA734L16	7.5k*	SP000293791	BGA734L16E6327XTSA1	TSLP-16-1	3.6	5	1.2	15	1900
BGA735N16	7.5k*	SP000659248	BGA735N16E6327XTSA1	TSNP-16-1	3.6	10	1.1	16	1900
BGA736L16	7.5k*	SP000366348	BGA736L16E6327XTSA1	TSLP-16-1	3.6	10	1.0	16.1	1900
BGA748L16	7.5k*	SP000608112	BGA748L16E6327XTSA1	TSLP-16-1	3.6	10	1.1	16.5	1960
▼ BGA749N16	7.5k*	SP000765164	BGA749N16E6327XTSA1	TSNP-16-1	3.6	10	1.2	16.1	940
BGA751L7	7.5k*	SP000417120	BGA751L7E6327XTSA1	TSLP-7-1	3.6	10	1.05	16	800
BGA777L7	7.5k*	SP000627608	BGA777L7E6327XTSA1	TSLP-7-1	3.6	10	1.2	16	650

#### Broadband/Wideband/FM+DVB Broadcast LNA

BGB707L7ESD	7.5k*	SP000531308	BGB707L7ESDE6327XTSA1	TSLP-7-1	4.0	25	1.0	15	10
BGB717L7ESD	7.5k*	SP000555608	BGB717L7ESDE6327XTSA1	TSLP-7-1	4.0	25	1.0	12	100
BGB717L7ESD	20k*	SP000638992	BGB717L7ESDE6433XTMA1	TSLP-7-1	4.0	25	1.0	12	100
▼ BGB719N7ESD	7.5k*	SP000942784	BGB719N7ESDE6327XTMA1	TSNP-7-6	4.0	25	1.2	13	100
BGB741L7ESD	7.5k*	SP000442946	BGB741L7ESDE6327XTSA1	TSLP-7-1	4.0	30	1.3	17.5	2400

\* order unit

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				$V_R$	$I_F$	$C_T$	$V_R$	$r_F$	
				V	mA	pF	V	$\Omega$	

## RF PIN Diodes

## Antenna Switching

BAR50-02V	3k*	SP000742882	BAR5002VH6327XTSA1	SC79	50	100	0.24	1	3.00
BAR50-03W	3k*	SP000012920	BAR5003WE6327HTSA1	SOD323	50	100	0.24	1	3.00
BAR61(Triple)	3k*	SP000010169	BAR61E6327HTSA1	SOT143	100	140	0.25	50	7.00
BAR63-02L	15k*	SP000013537	BAR6302LE6327XTMA1	TSLP-2-1	50	100	0.21	5	1.00
BAR63-02V	3k*	SP000742888	BAR6302VH6327XTSA1	SC79	50	100	0.21	5	1.00
BAR63-02W	3k*	SP000742890	BAR6303WE6327BTSA1	SCD80	50	100	0.21	5	1.00
BAR63-03W	3k*	SP000010172	BAR6304E6327HTSA1	SOD323	50	100	0.21	5	1.00
BAR63-04(Dual)	3k*	SP000012206	BAR6304E6327HTSA1	SOT23	50	100	0.21	5	1.00
BAR63-04W(Dual)	3k*	SP000742896	BAR6304WH6327XTSA1	SOT323	50	100	0.21	5	1.00
BAR63-05 (Dual)	3k*	SP000012207	BAR6305E6327HTSA1	SOT23	50	100	0.21	5	1.00
BAR63-05W (Dual)	3k*	SP000766086	BAR6305WH6327XTSA1	SOT323	50	100	0.21	5	1.00
BAR63-06 (Dual)	3k*	SP000012208	BAR6306E6327HTSA1	SOT23	50	100	0.21	5	1.10
BAR63-06W (Dual)	3k*	SP000743402	BAR6402LRHE6327XTSA1	SOT323	50	100	0.21	5	1.00
BAR64-02LRH	15k*	SP000051041	BAR6402LRHE6327XTSA1	TSLP-2-7	150	100	0.23	20	2.10
BAR64-02V	3k*	SP000743408	BAR6402VH6327XTSA1	SC79	150	100	0.23	20	2.10
BAR64-03W	3k*	SP000010179	BAR6403WE6327HTSA1	SOD323	150	100	0.23	20	2.10
BAR64-04 (Dual)	3k*	SP000012211	BAR6404E6327HTSA1	SOT23	150	100	0.23	20	2.10
BAR64-04W (Dual)	3k*	SP000743414	BAR6404WH6327XTSA1	SOT323	150	100	0.23	20	2.10
BAR64-05 (Dual)	3k*	SP000012212	BAR6405E6327HTSA1	SOT23	150	100	0.23	20	2.10
BAR64-05 (Dual)	10k*	SP000012214	BAR6405E6433HTMA1	SOT23	150	100	0.23	20	2.10
BAR64-05W (Dual)	3k*	SP000734362	BAR6405WH6327XTSA1	SOT323	150	100	0.23	20	2.10
BAR64-06 (Dual)	3k*	SP000012213	BAR6406E6327HTSA1	SOT23	150	100	0.23	20	2.10
BAR64-06W (Dual)	3k*	SP000743444	BAR6406WH6327XTSA1	SOT323	150	100	0.23	20	2.10
BAR65-02V	3k*	SP000743446	BAR6502VH6327XTSA1	SC79	30	100	0.60	1	0.56
BAR65-03W	3k*	SP000010186	BAR6503WE6327HTSA1	SOD323	30	100	0.60	1	0.56
BAR66 (Dual)	3k*	SP000010187	BAR66E6327HTSA1	SOT23	150	200	0.40	3	1.50
BAR66 (Dual)	10k*	SP000737168	BAR66E6433HTMA1	SOT23	150	200	0.40	3	1.50
BAR67-02V	3k*	SP000743448	BAR6702VH6327XTSA1	SC79	150	200	0.35	5	1.00
BAR67-04 (Dual)	3k*	SP000268691	BAR6704E6327HTSA1	SOT23	150	200	0.35	5	1.00
BAR81W	3k*	SP000743450	BAR81WH6327XTSA1	SOT343	30	100	0.60	1	0.70
BAR88-02V	3k*	SP000743452	BAR8802VH6327XTSA1	SC79	80	100	0.30	1	0.80
BAR88-02LRH	15k*	SP000051042	BAR8802LRHE6327XTSA1	TSLP-2-7	80	100	0.30	1	0.80
BAR89-02LRH	15k*	SP000051043	BAR8902LRHE6433XTMA1	TSLP-2-7	80	100	0.25	1	0.80
BAR89-02LRH	50k*	SP000083407	BAR8902LRHE6433XTMA1	TSLP-2-7	80	100	0.25	1	0.80
BAR90-02LRH	15k*	SP000051045	BAR9002LRHE6327XTSA1	TSLP-2-7	80	100	0.25	1	0.80
BAR90-02LS	15k*	SP000200323	BAR9002LSE6327XTSA1	TSSLP-2-1	80	100	0.25	1	0.80
▼ BAR90-098LRH	15k*	SP000053484	BAR90098LRHE6327XTSA1	TSLP-4-7	80	100	0.25	1	0.80

\* order unit

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# RF & Protection Devices

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				$V_{R\text{ max}}$ V	$I_{F\text{ max}}$ mA	$C_T$ pF	$V_R$ V	$r_F$ $\Omega$

## RF PIN Diodes

### Band Switching + RF Attenuation

BA592	3k*	SP000010141	BA592E6327HTSA1	SOD323	35	100	0.85	3	0.36
BA592	10k*	SP000010142	BA592E6433HTMA1	SOD323	35	100	0.85	3	0.36
BA595	3k*	SP000010146	BA595E6327HTSA1	SOD323	50	50	0.26	10	5.00
BA595	10k*	SP000010148	BA595E6433HTMA1	SOD323	50	50	0.26	10	5.00
BA885	3k*	SP000010151	BA885E6327HTSA1	SOT23	50	100	0.28	10	5.00
BA892	3k*	SP000734344	BA892H6327XTSA1	SCD80	35	100	0.85	3	0.36
BA892	3k*	SP000745044	BA892H6770XTSA1	SCD80	35	100	0.85	3	0.36
BA892	8k*	SP000745042	BA892H6127XTSA1	SCD80	35	100	0.85	3	0.36
BA892	10k*	SP000734328	BA892H6433XTMA1	SCD80	35	100	0.85	3	0.36
BA892-02V	3k*	SP000745054	BA89202VH6327XTSA1	SC79	35	100	0.85	3	0.36
BA892-02V	8k*	SP000745052	BA89202VH6127XTSA1	SC79	35	100	0.85	3	0.36
BA892-02V	10k*	SP000745060	BA89202VH6433XTMA1	SC79	35	100	0.85	3	0.36
BA895	3k*	SP000745062	BA895H6327XTSA1	SCD80	50	50	0.23	10	4.50
BAR14-1 (Dual)	3k*	SP000010164	BAR141E6327HTSA1	SOT23	100	140	0.25	50	7.00
BAR15-1 (Dual)	3k*	SP000010163	BAR151E6327HTSA1	SOT23	100	140	0.25	50	7.00
BAR16-1 (Dual)	3k*	SP000010165	BAR161E6327HTSA1	SOT23	100	140	0.25	50	7.00
BAR61 (Triple)	3k*	SP000010169	BAR61E6327HTSA1	SOT143	100	140	0.25	50	7.00
BAT18-04 (Dual)	3k*	SP000010290	BAT1804E6327HTSA1	SOT23	35	100	0.92	1	0.36
BAT18-05 (Dual)	3k*	SP000010291	BAT1805E6327HTSA1	SOT23	35	100	0.92	1	0.36

\* order unit

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_R$	$I_F$	$C_T$	$V_R$	$C_{T1}/C_{T2}$	
				V	mA	pF	V		

**RF Varactor Diodes****FM Tuner**

BB804SF1 (Dual)	3k*	SP000010425	BB804SF1E6327HTSA1	SOT23	20	50	43.0... 44.5	2	1.70
BB804SF2 (Dual)	3k*	SP000010426	BB804SF2E6327HTSA1	SOT23	20	50	44.0 ... 45.5	2	1.70
BB814GR1 (Dual)	3k*	SP000010433	BB814E6327GR1HTSA1	SOT23	20	50	43.0 ... 44.5	2	2.05 ... 2.25
BB814GR2 (Dual)	3k*	SP000010435	BB814E6327GR2HTSA1	SOT23	20	50	45.0 ... 46.5	2	2.05 ... 2.25
BB844 (Dual)	3k*	SP000013388	BB844E6327HTSA1	SOT23	18	50	42.5 ... 45	2	3.20 ... 3.80
BB914 (Dual)	3k*	SP000010445	BB914E6327HTSA1	SOT23	20	50	42.5 ... 45	2	2.28 ... 2.42

**SAT Tuner**

BB831	3k*	SP000012250	BB831E7904HTSA1	SOD323	30	20	7.8...9.8	1	8.60
BB833	3k*	SP000010437	BB833E6327HTSA1	SOD323	30	20	8.5...10	1	12.40
BB837	3k*	SP000010441	BB837E6327HTSA1	SOD323	30	20	6.0...7.2	1	12.20
BB857 matched	3k*	SP000745128	BB857H7902XTSA1	SCD80	30	20	6.0...7.2	1	12.00

**UHF and VHF Tuner**

BB439 matched	3k*	SP000010372	BB439E6327HTSA1	SOD323	30	20	26...32	3	5 ... 6.5
BB535 matched	3k*	SP000010375	BB535E7904HTSA1	SOD323	30	20	17.5... 20	1	8.2 ... 9.8
BB535 unmatched	3k*	SP000010374	BB535E7907HTMA1	SOD323	30	20	17.5 ... 20	1	8.2 ... 9.8
BB545 matched	3k*	SP000010383	BB545E7904HTSA1	SOD323	30	20	18.5 ... 21.5	1	9 ... 11
BB555 matched	3k*	SP000733802	BB555H7902XTSA1	SCD80	30	20	17.5 ... 20	1	6.7
BB555 matched	8k*	SP000745068	BB555H7912XTSA1	SCD80	30	20	17.5 ... 20	1	6.7
BB555-02V matched	3k*	SP000745088	BB55502VH7902XTSA1	SC79	30	20	17.5 ... 20	1	8.2 ... 9.8
BB555-02V matched	8k*	SP000745092	BB55502VH7912XTSA1	SC79	30	20	17.5 ... 20	1	8.2 ... 9.8
BB565 matched	3k*	SP000745094	BB565H7902XTSA1	SCD80	30	20	18.5 ... 21.5	1	7.2
BB565 unmatched	3k*	SP000745096	BB565H7908XTSA1	SCD80	30	20	18.5 ... 21.5	1	7.2
BB565 matched	8k*	SP000842826	BB565H7912XTSA1	SCD80	30	20	18.5 ... 21.5	1	7.2
BB565 matched	10k*	SP000734346	BB565H7903XTMA1	SCD80	30	20	18.5 ... 21.5	1	7.2
BB565-02V matched	3k*	SP000745098	BB56502VH7902XTSA1	SC79	30	20	18.5 ... 21.5	1	9 ... 11

\* order unit

SMD = Surface Mounted Device

# RF & Protection Devices

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
				$V_R$ V	$I_F$ mA	$C_T$ pF	$V_R$ V	$C_{T1}/C_{T2}$

## RF Varactor Diodes

### UHF and VHF Tuner (cont'd)

BB639 matched	3k*	SP000010401	BB639E7904HTSA1	SOD323	30	20	36...42	1	13.5
BB639C matched	3k*	SP000010396	BB639CE7904HTSA1	SOD323	30	20	36...42	1	11.1
BB639C unmatched	3k*	SP000010398	BB639CE7908HTSA1	SOD323	30	20	36...42	1	11.1
BB640 matched	3k*	SP000010406	BB640E6327HTSA1	SOD323	30	20	62...76	1	19.5
BB644 matched	3k*	SP000010411	BB644E7904HTSA1	SOD323	30	20	39... 44.5	1	11.8
BB659 matched	3k*	SP000745102	BB659H7902XTSA1	SCD 80	30	20	36...40	1	14.7
BB659C matched	3k*	SP000734324	BB659CH7902XTSA1	SCD80	30	20	36...40	1	11.1
BB659C matched	8k*	SP000745104	BB659CH7912XTSA1	SCD80	30	20	36...42	1	11.1
BB659C matched	10k*	SP000734342	BB659CH7903XTMA1	SCD80	30	20	36...42	1	11.1
BB659C-02V matched	3k*	SP000745108	BB659C02VH7902XTSA1	SC79	30	20	36.5... 42	1	9.5 ... 11.1
BB659C-02V unmatched	3k*	SP000745110	BB659C02VH7908XTSA1	SC79	30	20	36.5... 42	1	9.5 ... 11.1
BB659C-02V matched	8k*	SP000745112	BB659C02VH7912XTSA1	SC79	30	20	36.5... 42	1	9.5 ... 11.1
BB664 matched	3k*	SP000745114	BB664H7902XTSA1	SCD80	30	20	39... 44.5	1	11.8
BB664-02V matched	3k*	SP000745118	BB66402VH7902XTSA1	SC79	30	20	39... 44.5	1	11.8
BB669 matched	3k*	SP000010419	BB669E7904HTSA1	SOD323	30	20	51... 61.5	1	15.5
BB689 matched	3k*	SP000734326	BB689H7902XTSA1	SCD80	30	20	51... 61.5	1	15.5
BB689 unmatched	3k*	SP000745122	BB689H7908XTSA1	SCD80	30	20	51... 61.5	1	15.5
BB689 matched	8k*	SP000842828	BB689H7912XTSA1	SCD80	30	20	51... 61.5	1	15.5
BB689 matched	10k*	SP000745120	BB689H7903XTMA1	SCD80	30	20	51... 61.5	1	15.5
BB689-02V matched	3k*	SP000745124	BB68902VH7902XTSA1	SC79	30	20	51... 61.5	1	15.5
BB689-02V unmatched	3k*	SP000745126	BB68902VH7908XTSA1	SC79	30	20	51... 61.5	1	15.5

\* order unit

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_R$	$I_F$	$C_T$	$V_R$	$C_{T1}/C_{T2}$	
				V	mA	pF	V		

## RF Varactor Diodes

## VCO and Low Voltage Tuner

BBY51-02W	3k*	SP000743540	BBY5102WH6327XTSA1	SCD80	7	20	4.5...6.1	1	1.75
BBY51-03W	3k*	SP000010453	BBY5103WE6327HTSA1	SOD323	7	20	4.5...6.1	1	1.75
BBY52-02L	15k*	SP000014591	BBY5202LE6327XTMA1	TSLP-2-1	7	20	1.4...2.2	1	1.60
BBY52-02L	15k*	SP000621074	BBY5202LE6816XTMA1	TSLP-2-1	7	20	1.4...2.2	1	1.60
BBY52-02W	3k*	SP000743548	BBY5202WH6327XTSA1	SCD80	7	20	1.4...2.2	1	1.60
BBY53-02L	15k*	SP000014592	BBY5302LE6327XTMA1	TSLP-2-1	6	20	4.8...5.8	1	2.20
BBY53-02V	3k*	SP000743550	BBY5102WH6327XTSA1	SC79	6	20	4.8...5.8	1	2.20
BBY53-02W	3k*	SP000743552	BBY5302WH6327XTSA1	SCD80	6	20	4.8...5.8	1	2.20
BBY53-03W	3k*	SP000010461	BBY5303WE6327HTSA1	SOD323	6	20	4.8...5.8	1	2.20
BBY53-05W (Dual)	3k*	SP000743554	BBY5305WH6327XTSA1	SOT323	6	20	4.8...5.8	1	2.20
BBY55-02V	3k*	SP000743556	BBY5502VH6327XTSA1	SC79	16	20	14...16	1	2.50
BBY55-02W	3k*	SP000743558	BBY5502WH6327XTSA1	SCD80	16	20	14...16	1	2.50
BBY55-03W	3k*	SP000012238	BBY5503WE6327HTSA1	SOD323	16	20	14...16	1	2.50
BBY56-02W	3k*	SP000734340	BBY5602WH6327XTSA1	SCD80	10	20	59...67	1	2.45
BBY56-03W	3k*	SP000012239	BBY5603WE6327HTSA1	SOD323	10	20	59...67	1	2.45
BBY57-02V	3k*	SP000743560	BBY5702VH6327XTSA1	SC79	10	20	16.5 ... 18.6	1	2.45
BBY57-02W	3k*	SP000743562	BBY5702WH6327XTSA1	SCD80	10	20	16.5 ... 18.6	1	2.45
BBY57-05W (Dual)	3k*	SP000743564	BBY5705WH6327XTSA1	SOT323	10	20	16.5 ... 18.6	1	2.45
BBY58-02V	3k*	SP000743566	BBY5802VH6327XTSA1	SC79	10	20	17.5 ... 19.3	1	2.15
BBY58-02W	3k*	SP000743570	BBY5802WH6327XTSA1	SCD80	10	20	17.5 ... 19.3	1	2.15
BBY58-03W	3k*	SP000012240	BBY5803WE6327HTSA1	SOD323	10	20	17.5 ... 19.3	1	2.15
BBY58-05W (Dual)	3k*	SP000743572	BBY5805WH6327XTSA1	SOT323	10	20	17.5 ... 19.3	1	2.15
BBY58-06W (Dual)	3k*	SP000743574	BBY5806WH6327XTSA1	SOT323	10	20	17.5 ... 19.3	1	2.15
BBY65-02V	3k*	SP000743576	BBY6502VH6327XTSA1	SC79	15	50	20.25	1	4.55
BBY66-02V	3k*	SP000743580	BBY6602VH6327XTSA1	SC79	12	50	66.0... 71.5	1	5.41
BBY66-05W	3k*	SP000743582	BBY6605WH6327XTSA1	SOT323	12	50	66.0... 71.5	1	5.41

\* order unit

SMD = Surface Mounted Device

# RF & Protection Devices

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings			Characteristics ( $T_A = 25^\circ\text{C}$ )					
				$V_{DS}$	$I_D$	$P_{tot}$	$G_{ps}$	$F$ at	$V_{DS}$	$I_D$	$g_{fs}$	
				V	mA	mW	dB	dB	V	mA	mS	

## RF MOSFETs

### Dual Intelligent Switching (800 MHz)

BG3430R	3k*	SP000753498	BG3430RH6327XTSA1	SOT363	8	25	200	25	1.30	5	14	33
BG5412K	3k*	SP000753502	BG5412KH6327XTSA1	SOT363	8	25	200	24	1.20	5	10	33

### Dual Semi Biased (800 MHz)

BG3123	3k*	SP000753490	BG3123H6327XTSA1	SOT363	8	25	160	24	1.30	5	10	25/30
BG3123R	3k*	SP000753492	BG3123RH6327XTSA1	SOT363	8	25	160	24	1.30	5	10	25/30
BG3130	3k*	SP000753494	BG3130H6327XTSA1	SOT363	8	25	160	24	1.30	5	10	33/33
BG3130R	3k*	SP000753496	BG3130RH6327XTSA1	SOT363	8	25	160	24	1.30	5	10	33/33
BG5120K	3k*	SP000753500	BG5120KH6327XTSA1	SOT363	8	20	200	24	1.20	5	10	33

### Single Semi Biased (800 MHz)

BF2030	3k*	SP000012219	BF2030E6814HTSA1	SOT143	14	40	200	–	2.0	5	10	31
BF2030R	3k*	SP000012220	BF2030RE6814HTSA1	SOT143R	14	40	200	–	2.0	5	10	31
BF2030W	3k*	SP000752012	BF2030WH6814XTSA1	SOT343	14	40	200	–	2.0	5	10	31
BF2030W	10k*	SP000752046	BF2030WH6824XTMA1	SOT343	14	40	200	–	2.0	5	10	31
BF2040	3k*	SP000012215	BF2040E6814HTSA1	SOT143	8	20	200	21	1.7	5	15	45
BF2040R	3k*	SP000012216	BF2040RE6814HTSA1	SOT143R	8	20	200	21	1.7	5	15	45
BF2040W	3k*	SP000753484	BF2040WH6814XTSA1	SOT343	8	20	200	23	1.6	5	15	45
BF5020W	3k*	SP000753486	BF5020WH6327XTSA1	SOT343	8	25	200	26	1.2	5	10	34
BF5030W	3k*	SP000753488	BF5030WH6327XTSA1	SOT343	8	25	200	24	1.3	3	10	41

### Single Full Biased (800 MHz)

BF1005	3k*	SP000010946	BF1005E6327HTSA1	SOT143	8	25	200	18	1.40	5	10	24
BF1005S	3k*	SP000010949	BF1009SE6327HTSA1	SOT143	8	25	200	19	1.60	5	12	30
BF1009S	3k*	SP000010955	BF1009SE6327BTSA1	SOT143	12	25	200	22	1.40	9	12	30
BF1009SR	3k*	SP000010956	BF1009SRE6327HTSA1	SOT143R	12	25	200	22	1.40	9	12	30

### Single Non Biased (200 - 800 MHz)

BF998	3k*	SP000010978	BF998E6327BTSA1	SOT143	12	30	200	20	1.00	8	10	24
BF998R	3k*	SP000010979	BF998RE6327HTSA1	SOT143R	12	30	200	20	1.00	8	10	24
BF999	3k*	SP000010985	BF999E6327HTSA1	SOT23	20	30	200	25	1.00	10	10	16
BF999	10k*	SP000426300	BF999E6433HTMA1	SOT23	20	30	200	25	1.00	10	10	16

\* order unit

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )	
				$V_R$ V	$I_F$ mA	$V_F$ mV	at $I_F$ mA

## RF Schottky Diodes

## RF Mixer

BAT15-02LRH	15k*	SP000055124	BAT1502LRHE6327XTSA1	TSLP-2-7	4	110	230	1
BAT15-02LS	70k*	SP000703608	BAT1502LSE6433XTMA1	TSSLP-2-1	4	110	230	1
BAT15-03W	3k*	SP000010272	BAT1503WE6327HTSA1	SOD323	4	110	230	1
BAT15-04R	3k*	SP0000960186	BAT1504RE6152HTSA1	SOT23	4	110	230	1
BAT15-04R	3k*	SP000659920	BAT1504RE6327HTSA1	SOT23	4	110	230	1
BAT15-04W (Dual)	3k*	SP000743458	BAT1504WH6327XTSA1	SOT323	4	110	230	1
BAT15-05W (Dual)	3k*	SP000743460	BAT1505WH6327XTSA1	SOT323	4	110	230	1
BAT15-099 (Dual)	3k*	SP000010273	BAT15099E6327HTSA1	SOT143	4	110	230	1
BAT15-099 (Dual)	10k*	SP000010275	BAT15099RE6327HTSA1	SOT143	4	110	230	1
BAT15-099R (Dual)	3k*	SP000010276	BAT15099RE6327HTSA1	SOT143	4	110	230	1
BAT17	3k*	SP000010280	BAT17E6327HTSA1	SOT23	4	130	340	1
BAT17-04 (Dual)	3k*	SP000010283	BAT1704E6327HTSA1	SOT23	4	130	340	1
BAT17-04W (Dual)	3k*	SP000743462	BAT1704WH6327XTSA1	SOT323	4	130	340	1
BAT17-05 (Dual)	3k*	SP000010285	BAT1705WH6327XTSA1	SOT23	4	130	340	1
BAT17-05W (Dual)	3k*	SP000743464	BAT1705WH6327XTSA1	SOT323	4	130	340	1
BAT17-06W (Dual)	3k*	SP000743466	BAT1706WH6327XTSA1	SOT323	4	130	340	1
BAT17-07 (Dual)	3k*	SP000010289	BAT1707E6327HTSA1	SOT143	4	130	350	1
BAT24-02LS	15k*	SP000304927	BAT2402LSE6327XTSA1	TSSLP-2-1	4	110	230	1

## RF Signal Detection + Power Leveling

BAT62	3k*	SP000010300	BAT62E6327HTSA1	SOT143	40	20	580	2
BAT62-02L	15k*	SP000016963	BAT6202LE6327XTMA1	TSLP-2-1	40	20	580	2
BAT62-02LS	15k*	SP000273996	BAT6202LSE6327XTSA1	TSSLP-2-1	40	20	580	2
BAT62-02W	3k*	SP000743522	BAT6202WH6327XTSA1	SCD80	40	20	580	2
BAT62-03W	3k*	SP000010303	BAT6203WE6327HTSA1	SOD323	40	20	580	2
BAT62-07L4 (Dual)	3k*	SP000077202	BAT6207L4E6433XTMA1	TSLP-2-1	40	20	580	2
BAT62-07W (Dual)	3k*	SP000010304	BAT6207WE6327HTSA1	SOT343	40	20	580	2
BAT62-07W (Dual)	3k*	SP000743524	BAT6207WH6327XTSA1	SOT343	40	20	580	2
BAT63-02V	3k*	SP000743526	BAT6302VH6327XTSA1	SC79	3	100	190	1
BAT63-07W	3k*	SP000743534	BAT6307WH6327XTSA1	SOT343	3	100	190	1
BAT68	3k*	SP000012514	BAT68E6327HTSA1	SOT23	8	130	320	1
BAT68-04 (Dual)	3k*	SP000010320	BAT6804E6327HTSA1	SOT23	8	130	320	1
BAT68-04W (Dual)	3k*	SP000743536	BAT6804WH6327XTSA1	SOT323	8	130	320	1
BAT68-06 (Dual)	3k*	SP000010322	BAT6806E6327HTSA1	SOT23	8	130	320	1
BAT68-06W (Dual)	3k*	SP000743538	BAT6806WH6327XTSA1	SOT323	8	130	320	1

\* order unit

SMD = Surface Mounted Device

## RF & Protection Devices

Type	Ordering Code	Orderable Part Number	Package	Characteristics		
				$V_{BR(min)}$ V	$V_{ESD(min)}$ kV	GSM-Rejection @900 MHz dB

### ESD and EMI Protection Devices and Filters

#### Infineon® Hipac Audio Line Interfaces

BGF113	4.5k*	SP000415014	BGF113E6328XTSA1	S-WLP-8-6	4.0	15	50
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#### Data Interfaces (LCD-, Camera-, Keypad interface protection, I/O data lines)

BGF108C	4.5k*	SP000482542	BGF108CE6328XTSA1	S-WLP-18-4	4.0	15	22
BGF109C	4.5k*	SP000465532	BGF109CE6328XTSA1	S-WLP-24-9	4.0	15	28

#### General Purpose

BGF112	4.5k*	SP000459860	BGF112E6328XTSA1	S-WLP-5-1	4.0	15	34
BGF119	9k*	SP000681630	BGF119E6329XTSA1	S-WLP-4-1	4.0	15	34
BGF121	9k*	SP000681628	BGF121E6329XTSA1	S-WLP-4-1	1.0	15	–

#### MMIC-, SD-, µSD-Card and SIM-Card Interfaces

BGF104C	4.5k*	SP000703762	BGF104CE6328XTSA1	S-WLP-16-3	5.0	15	12
BGF106C	4.5k*	SP000646832	BGF106CE6328XTSA1	S-WLP-8-11	5.0	15	14
BGF117	4.5k*	SP000737100	BGF117E6328XTSA1	S-WLP-16-4	5.0	15	10

#### HDMI Interfaces

▼ BGF127	4.5k*	SP000609000	BGF127E6328XTSA1	S-WLP-9-1	5.3	15	n.a.
▼ BGF128	4.5k*	SP000515192	BGF128E6328XTSA1	S-WLP-8-9	5.0	15	n.a.

\* order unit

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Characteristics		
				$V_{RWM}$ V	EFT IEC61000-4-4 A	$V_{ESD}$ IEC61000-4-2 kV

**ESD and EMI Protection Devices and Filters****TVS Diodes for ESD Protection on Audio, Speaker, Headset Lines**

Implementation of these devices in some other application categories is possible. Please consult your Infineon Sales contact.

ESD5V3S1B-02LRH	15k*	SP000558068	ESD5V3S1B02LRHE6327XTMA1	TSLP-2-17	+/-5.3	50	+/-20
ESD5V3S1B-02LS	15k*	SP000685350	ESD5V3S1B02LSE6327XTSA1	TSLP-2-17	+/-5.3	40	+/-17
▼ ESD5V3L1B-02LRH	15k*	SP000921756	ESD5V3L1B02LRHE6327XTMA1	TSLP-2-18	+/-20	50	+/-14
▼ ESD5V3L1B-02LS	15k*	SP000914448	ESD5V3L1B02LSE6327XTSA1	TSSLP-2-2	+/-20	40	+/-14
▼ ESD8V0R1B-02EL	15k*	SP000832844	ESD8V0R1B02ELE6327XTMA1	TSLP-2-18	-8/+14	40	+/-14
▼ ESD8V0R1B-02ELS	15k*	SP000849992	ESD8V0R1B02ELSE6327XTSA1	TSLP-2-18	-8/+14	40	+/-14

**TVS Diodes for ESD Protection in RF Applications (GPS antenna, FM radio, Mobile TV, Bluetooth, etc.)**

Implementation of these devices in some other application categories is possible. Please consult your Infineon Sales contact.

ESD1P0RFS	3k*	SP000753518	ESD1P0RFSH6327XTSA1	SOT363	70	40	+/-20
ESD1P0RFW	3k*	SP000753520	ESD1P0RFWH6327XTSA1	SOT323	70	40	+/-20
ESD0P4RFL	15k*	SP000396832	ESD0P4RFLE6327XTSA1	TSLP-4-7	50	40	+/-15
ESD0P8RFL	15k*	SP000362197	ESD0P8RFLE6327XTSA1	TSLP-4-7	50	40	+/-20
ESD5V3L1U-02LRH	15k*	SP000781844	ESD5V3L1U02LRHE6327XTMA1	TSLP-2-17	5.3	80	+/-30
ESD0P2RF-02LRH	15k*	SP000516754	ESD0P2RF02LRHE6327XTMA1	TSLP-2-17	+/-5.3	40	+/-20
ESD0P2RF-02LS	15k*	SP000516752	ESD0P2RF02LSE6327XTSA1	TSSLP-2-1	+/-5.3	40	+/-20

**TVS Diodes for ESD Protection of High Speed Digital Lines (USB 2.0/3.0, HDMI 1.3, Mobile HDMI Link, MIPI, etc.)**

Implementation of these devices in some other application categories is possible. Please consult your Infineon Sales contact.

ESD3V3U1U-02LRH	15k*	SP000390728	ESD3V3U1U02LRHE6327XTSA1	TSLP-2-7	3.3	50	+/-20
ESD3V3U1U-02LS	15k*	SP000394145	ESD3V3U1U02LSE6327XTSA1	TSSLP-2-1	3.3	50	+/-20
ESD5V3U1U-02LRH	15k*	SP000394151	ESD5V3U1U02LRHE6327XTSA1	TSLP-2-7	5.3	50	+/-20
ESD5V3U1U-02LS	15k*	SP000394147	ESD5V3U1U02LSE6327XTSA1	TSSLP-2-1	5.3	50	+/-20
ESD5V3U2U-03F	3k*	SP000753526	ESD5V3U2U03FH6327XTSA1	TSFP-3-1	5.3	40	+/-20
ESD5V3U2U-03LRH	15k*	SP000427412	ESD5V3U2U03LRHE6327XTMA1	TSLP-3-7	5.3	40	+/-20
ESD5V3U4RRS	3k*	SP000753528	ESD5V3U4RRSH6327XTSA1	SOT363	5.3	50	+/-15
ESD5V3U4U-HDMI	7.5k*	SP000485506	ESD5V3U4UHDMIE6327XTSA1	TSLP-9-1	5.3	40	+/-20
ESD3V3U4ULC	7.5k*	SP000844018	ESD3V3U4ULCE6327XTSA1	TSLP-9-1	3.3	40	+/-20

\* order unit

SMD = Surface Mounted Device

## RF & Protection Devices

Type	Ordering Code	Orderable Part Number	Package	Characteristics		
				$V_{RWM}$ V	<i>EFT</i> IEC61000-4-4 A	$V_{ESD}$ IEC61000-4-2 kV

### ESD and EMI Protection Devices and Filters

#### TVS Diodes for ESD/Transient Protection in Human Interface Devices (keypad, keyboard, touchpad, buttons, etc.)

Implementation of these devices in some other application categories is possible. Please consult your Infineon Sales contact.

ESD8V0L1B-02EL	15k*	SP000235246		TSLP-2-18	-8 ... 14	40	+/-25
ESD8V0L1B-02EL	50k*	SP000257037	ESD8V0L1B02LRHE6433XTMA1	TSLP-2-18	-8 ... 14	40	+/-25
ESD8V0L2B-03L	15k*	SP000055122	ESD8V0L2B03LE6327XTMA1	TSLP-3-1	-8 ... 14	40	+/-15
ESD8V0R1B-02EL	15k*	SP000368384	ESD8V0R1B02LSE6327XTSA1	TSLP-2-18	-8 ... 14	40	+/-18
ESD8V0R1B-02ELS	15k*	SP000368387	ESD8V0R1B02LSE6327XTSA1	TSSLP-2-2	-8 ... 14	40	+/-18
ESD5V0S1U-03W	3k*	SP000205608	ESD5V0S1U03WE6327HTSA1	SOD323	5	80	+/-30
ESD5V0S2U-06	3k*	SP000205610	ESD5V0S2U06E6327HTSA1	SOT23	5	80	+/-30
ESD5V0S4US	3k*	SP000753522	ESD5V0S4USH6327XTSA1	SOT363	5	80	+/-30
ESD5V0S5US	3k*	SP000753524	ESD5V0S5USH6327XTSA1	SOT363	5	80	+/-30
ESD24VS2U	3k*	SP000316684	ESD24VS2UE6327HTSA1	SOT23	24	80	+/-30
▼ ESD5V0L1B-02V	3k*	SP000872146	ESD5V0L1B02VH6327XTSA1	SC79	5	40	+/-25
▼ ESD5V0S1U-02V	3k*	SP000860826	ESD5V0S1U02VH6327XTSA1	SC79	5	50	+/-20

#### TVS Diode for ESD/Transient Protection in Wireline Communication Applications (ADSL, VDSL)

DSL70	3k*	SP000362209	DSL70E6327HTSA1	SOT143	50	80	15
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\* order unit

SMD = Surface Mounted Device

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## General Purpose Diodes & Transistors

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# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )	
				$V_R$	$I_F$	$V_F$	at $I_F$
				V	mA	V	mA

## Schottky Diodes

### Medium Power $I_{Fmax} \geq 500$ mA

BAS3005A-02V	3k*	SP000749684	BAS3005A02VH6327XTSA1	SC79	30	500	0.370	200
BAS3005B-02V	3k*	SP000749682	BAS3005B02VH6327XTSA1	SC79	30	500	0.410	200
BAS3005S-02LRH	15k*	SP000472478	BAS3005S02LRHE6327XTMA1	TSLP-2-17	30	500	0.370	200
BAS3010A-03W	3k*	SP000068629	BAS3010A03WE6327HTSA1	SOD323	30	1000	0.350	500
BAS3010B-03W	3k*	SP000068630	BAS3010B03WE6327HTSA1	SOD323	30	1000	0.420	500
BAS3010S-02LRH	15k*	SP000472480	BAS3010S02LRHE6327XTMA1	TSLP-2-17	30	1000	0.500	700
BAS3020B	3k*	SP000749686	BAS3020BH6327XTSA1	SOT363	30	2000	0.410	1000
BAS4002S-02LRH	15k*	SP000472476	BAS4002S02LRHE6327XTMA1	TSLP-2-17	40	200	0.420	100
BAS52-02V	3k*	SP000749808	BAS5202VH6327XTSA1	SC79	45	750	0.430	100
BAS52-02V	10k*	SP000749810	BAS5202VH6433XTMA1	SC79	45	750	0.430	100
BAT165	3k*	SP000010277	BAT165E6327HTSA1	SOD323	40	750	0.350	100
BAT60A	3k*	SP000010294	BAT60AE6327HTSA1	SOD323	10	3000	0.300	1000
BAT60B	3k*	SP000010296	BAT60BE6327HTSA1	SOD323	10	3000	0.400	1000

### High Speed Switching, Clipping and Clamping

BAS125-04W (Dual)	3k*	SP000749598	BAS12504WH6327XTSA1	SOT323	25	100	0.385	1
BAS125-05W (Dual)	3k*	SP000749600	BAS12505WH6327XTSA1	SOT323	25	100	0.385	1
BAS125-07W (Dual)	3k*	SP000749602	BAS12507WH6327XTSA1	SOT343	25	100	0.385	1
BAS140W	3k*	SP000010199	BAS140WE6327HTSA1	SOD323	40	120	0.310	1
BAS170W	3k*	SP000010216	BAS170WE6327HTSA1	SOD323	70	70	0.375	1
BAS40	3k*	SP000010235	BAS40E6327HTSA1	SOT23	40	120	0.310	1
BAS40	10k*	SP000010233	BAS40E6433HTMA1	SOT23	40	120	0.310	1
BAS40-02L	15k*	SP000013549	BAS4002LE6327XTMA1	TSLP-2-1	40	120	0.310	1
BAS40-04 (Dual)	3k*	SP000010241	BAS4004E6327HTSA1	SOT23	40	120	0.310	1
BAS40-04 (Dual)	10k*	SP000010243	BAS4004E6433HTMA1	SOT23	40	120	0.310	1
BAS40-05 (Dual)	3k*	SP000010240	BAS4005E6327HTSA1	SOT23	40	120	0.310	1
BAS40-05 (Dual)	10k*	SP000010242	BAS4005E6433HTMA1	SOT23	40	120	0.310	1
BAS40-05W (Dual)	3k*	SP000749762	BAS4006E6327BTSA1	SOT323	40	120	0.310	1
BAS40-06 (Dual)	3k*	SP000010239	BAS4006E6327HTSA1	SOT23	40	120	0.310	1
BAS40-06 (Dual)	10k*	SP000010244	BAS4006E6433HTMA1	SOT23	40	120	0.310	1
BAS40-06W (Dual)	3k*	SP000749764	BAS4006WH6327XTSA1	SOT323	40	120	0.310	1
BAS40-07 (Dual)	3k*	SP000010245	BAS4007E6327HTSA1	SOT143	40	120	0.310	1
BAS40-07W (Dual)	3k*	SP000749806	BAS4007WH6327XTSA1	SOT343	40	120	0.310	1

\* order unit

SMD = Surface Mounted Device

# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )	
				$V_R$	$I_F$	$V_F$	at $I_F$
				V	mA	V	mA

## Schottky Diodes

### High Speed Switching, Clipping and Clamping (cont'd)

BAS70	3k*	SP000010247	BAS70E6327HTSA1	SOT23	70	70	0.375	1
BAS70	10k*	SP000010248	BAS70E6433HTMA1	SOT23	70	70	0.375	1
BAS70-02L	15k*	SP000013550	BAS7002LE6327XTMA1	TSLP-2-1	70	70	0.375	1
BAS70-02W (Dual)	3k*	SP000749812	BAS7002WH6327XTSA1	SCD80	70	70	0.375	1
BAS70-04 (Dual)	3k*	SP000010253	BAS7004E6327HTSA1	SOT23	70	70	0.375	1
BAS70-04 (Dual)	10k*	SP000010256	BAS7004E6433HTMA1	SOT23	70	70	0.375	1
BAS70-04S (Quad)	3k*	SP000749814	BAS7004SH6327XTSA1	SOT363	70	70	0.375	1
BAS70-04S (Quad)	3k*	SP000749816	BAS7004SH6727XTSA1	SOT363	70	70	0.375	1
BAS70-04S (Quad)	3k*	SP000749818	BAS7004SH6827XTSA1	SOT363	70	70	0.375	1
BAS70-04W (Dual)	3k*	SP000749820	BAS7004WH6327XTSA1	SOT323	70	70	0.375	1
BAS70-05 (Dual)	3k*	SP000010252	BAS7005E6327HTSA1	SOT23	70	70	0.375	1
BAS70-05 (Dual)	10k*	SP000078827	BAS7005E6433HTMA1	SOT23	70	70	0.375	1
BAS70-05W (Dual)	3k*	SP000749822	BAS7005WH6327XTSA1	SOT323	70	70	0.375	1
BAS70-06 (Dual)	3k*	SP000010254	BAS7006E6327HTSA1	SOT23	70	70	0.375	1
BAS70-06 (Dual)	10k*	SP000010260	BAS7006E6433HTMA1	SOT23	70	70	0.375	1
BAS70-06W (Dual)	3k*	SP000749824	BAS7006WH6327XTSA1	SOT323	70	70	0.375	1
BAS70-07 (Dual)	3k*	SP000010266	BAS7007E6327HTSA1	SOT143	70	70	0.375	1
BAS70-07 (Dual)	10k*	SP000010269	BAS7007E6433HTMA1	SOT143	70	70	0.375	1
BAS70-07W (Dual)	3k*	SP000749826	BAS7007WH6327XTSA1	SOT343	70	70	0.375	1
BAT54	3k*	SP000068499	BAT54E6327HTSA1	SOT23	30	200	$\leq 0.320$	1
BAT54-02LRH	15k*	SP000234099	BAT5402LRHE6327XTSA1	TSLP-2-7	30	200	$\leq 0.320$	1
BAT54-02V	3k*	SP000749828	BAT5402VH6327XTSA1	SC79	30	200	$\leq 0.320$	1
BAT54-03W	3k*	SP000426668	BAT5403WE6327HTSA1	SOD323	30	200	$\leq 0.320$	1
BAT54-04 (Dual)	3k*	SP000068500	BAT5404E6327HTSA1	SOT23	30	200	$\leq 0.320$	1
BAT54-04W (Dual)	3k*	SP000749830	BAT5404WH6327XTSA1	SOT323	30	200	$\leq 0.320$	1
BAT54-05 (Dual)	3k*	SP000068509	BAT5405E6327HTSA1	SOT23	30	200	$\leq 0.320$	1
BAT54-05W (Dual)	3k*	SP000749832	BAT5405WH6327XTSA1	SOD323	30	200	$\leq 0.320$	1
BAT54-06 (Dual)	3k*	SP000068510	BAT5406E6327HTSA1	SOT23	30	200	$\leq 0.320$	1
BAT54-06W (Dual)	3k*	SP000749834	BAT5406WH6327XTSA1	SOT323	30	200	$\leq 0.320$	1
BAT54W (Dual)	3k*	SP000786162	BAT54WH6327XTSA1	SOT323	30	200	$\leq 0.320$	1
BAT64	3k*	SP000010307	BAT64E6327HTSA1	SOT23	40	250	0.320	1
BAT64-02W	3k*	SP000749836	BAT6402WH6327XTSA1	SCD80	40	250	0.320	1
BAT64-04 (Dual)	3k*	SP000010309	BAT6404E6327HTSA1	SOT23	40	250	0.320	1
BAT64-04 (Dual)	10k*	SP000010314	BAT6404E6433HTMA1	SOT23	40	250	0.320	1
BAT64-04W (Dual)	3k*	SP000749838	BAT6404WH6327XTSA1	SOT323	40	250	0.320	1
BAT64-05 (Dual)	3k*	SP000010310	BAT6405E6327HTSA1	SOT23	40	250	0.320	1
BAT64-05W (Dual)	3k*	SP000749840	BAT6405WH6327XTSA1	SOT323	40	250	0.320	1
BAT64-06 (Dual)	3k*	SP000010311	BAT6406E6327HTSA1	SOT23	40	250	0.320	1
BAT64-06W (Dual)	3k*	SP000749842	BAT6406WH6327XTSA1	SOT323	40	250	0.320	1
BAT240A (Dual)	3k*	SP000010292	BAT240AE6327HTSA1	SOT23	240	400	0.325	10
BAT240A (Dual)	10k*	SP000426394	BAT240AE6433HTMA1	SOT23	240	400	0.325	10

\* order unit

SMD = Surface Mounted Device

# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings				Resistance Value	
				$V_{CEO}$	$V_{I(on) max}$	$I_C$	$P_{tot}$	$R_1$	$R_2$
				V	V	mA	mW	k $\Omega$	k $\Omega$

## Digital Transistors

### Single $I_C \leq 100$ mA

BCR108	3k*	SP000010736	BCR108E6327HTSA1	SOT23	50	10	100	200	2.2	47
BCR108	10k*	SP000010737	BCR108E6433HTMA1	SOT23	50	10	100	200	2.2	47
BCR108W	3k*	SP000750780	BCR108WH6327XTSA1	SOT323	50	10	100	250	2.2	47
BCR108W	10k*	SP000757882	BCR108WH6433XTMA1	SOT323	50	10	100	250	2.2	47
BCR112	3k*	SP000010747	BCR112E6327HTSA1	SOT23	50	15	100	200	4.7	4.7
BCR112W	3k*	SP000750790	BCR112WH6327XTSA1	SOT323	50	15	100	250	4.7	4.7
BCR116	3k*	SP000010749	BCR116E6327HTSA1	SOT23	50	15	100	200	4.7	47
BCR116	10k*	SP000010751	BCR116E6433HTMA1	SOT23	50	15	100	200	4.7	47
BCR116W	3k*	SP000754072	BCR116WH6327XTSA1	SOT323	50	15	100	250	4.7	47
BCR119	3k*	SP000010752	BCR119E6327HTSA1	SOT23	50	15	100	200	4.7	–
BCR119W	3k*	SP000755044	BCR119WH6327XTSA1	SOT323	50	15	100	250	4.7	–
BCR129	3k*	SP000012520	BCR129E6327HTSA1	SOT23	50	20	100	200	10	–
BCR129W	3k*	SP000755048	BCR129WH6327XTSA1	SOT323	50	20	100	250	10	–
BCR133	3k*	SP000010757	BCR133E6327HTSA1	SOT23	50	20	100	200	10	10
BCR133	10k*	SP000010759	BCR133E6433HTMA1	SOT23	50	20	100	200	10	10
BCR133W	3k*	SP000756246	BCR133WH6327XTSA1	SOT323	50	20	100	250	10	10
BCR135	3k*	SP000010765	BCR135E6327HTSA1	SOT23	50	20	100	200	10	47
BCR135	10k*	SP000010767	BCR135E6433HTMA1	SOT23	50	20	100	200	10	47
BCR135W	3k*	SP000756252	BCR135WH6327XTSA1	SOT323	50	20	100	250	10	47
BCR141	3k*	SP000010769	BCR141E6327HTSA1	SOT23	50	30	100	200	22	22
BCR141	10k*	SP000010771	BCR141E6433HTMA1	SOT23	50	30	100	200	22	22
BCR141W	3k*	SP000756258	BCR141WH6327XTSA1	SOT323	50	30	100	250	22	22
BCR142	3k*	SP000010775	BCR142E6327HTSA1	SOT23	50	30	100	200	22	47
BCR142	10x3k*	SP000010774	BCR142B6327HTSA1	SOT23	50	30	100	200	22	47
BCR142W	3k*	SP000756260	BCR142WH6327XTSA1	SOT323	50	30	100	250	22	47
BCR146	3k*	SP000010777	BCR146E6327HTSA1	SOT23	50	50	70	200	47	22
BCR148	3k*	SP000010780	BCR148E6327HTSA1	SOT23	50	50	70	200	47	47
BCR148	10k*	SP000426390	BCR148E6433HTMA1	SOT23	50	50	70	200	47	47
BCR148W	3k*	SP000756268	BCR148WH6327XTSA1	SOT323	50	50	70	250	47	47
BCR158	3k*	SP000010784	BCR158E6327HTSA1	SOT23	50	10	100	200	2.2	47
BCR158W	3k*	SP000750762	BCR158WH6327XTSA1	SOT323	50	10	100	250	2.2	47
BCR162	3k*	SP000010785	BCR162E6327HTSA1	SOT23	50	15	100	200	4.7	4.7
BCR166	3k*	SP000010788	BCR166E6327HTSA1	SOT23	50	15	100	200	4.7	47
BCR166	10k*	SP000010791	BCR166E6433HTMA1	SOT23	50	15	100	200	4.7	47
BCR166	10x3k*	SP000056344	BCR166B6327HTSA1	SOT23	50	15	100	200	4.7	47
BCR166W	3k*	SP000750764	BCR166WH6327XTSA1	SOT323	50	15	100	250	4.7	47
BCR169	3k*	SP000010793	BCR169E6327HTSA1	SOT23	50	15	100	200	4.7	–
BCR169W	3k*	SP000756844	BCR169WH6327XTSA1	SOT323	50	15	100	250	4.7	–
BCR183	3k*	SP000010794	BCR183E6327HTSA1	SOT23	50	20	100	200	10	10
BCR183	10k*	SP000010796	BCR183E6433HTMA1	SOT23	50	20	100	200	10	10
BCR183W	3k*	SP000757002	BCR183WH6327XTSA1	SOT323	50	20	100	250	10	10
BCR185	3k*	SP000010806	BCR185E6327HTSA1	SOT23	50	20	100	200	10	47
BCR185	10k*	SP000010807	BCR185E6433HTMA1	SOT23	50	20	100	200	10	47
BCR191	3k*	SP000010810	BCR191E6327HTSA1	SOT23	50	30	100	200	22	22
BCR191W	3k*	SP000757896	BCR191WH6327XTSA1	SOT323	50	30	100	250	22	22
BCR192	3k*	SP000010812	BCR192E6327HTSA1	SOT23	50	30	100	200	22	47

\* order unit

SMD = Surface Mounted Device



# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings				Resistance Value	
				$V_{CEO}$	$V_{I(on)max}$	$I_C$	$P_{tot}$	$R_1$	$R_2$
				V	V	mA	mW	k $\Omega$	k $\Omega$

## Digital Transistors

### Single $I_C \leq 100$ mA (cont'd)

BCR192W	3k*	SP000757898	BCR192WH6327XTSA1	SOT323	50	30	100	250	22	47
BCR196	3k*	SP000014762	BCR196E6327HTSA1	SOT23	50	50	70	250	47	22
BCR196W	3k*	SP000757902	BCR196WH6327XTSA1	SOT323	50	50	70	250	47	22
BCR198	3k*	SP000010817	BCR198E6327HTSA1	SOT23	50	50	70	200	47	47
BCR198	10k*	SP000010820	BCR198E6433HTMA1	SOT23	50	50	70	200	47	47
BCR198	10x3k*	SP000056350	BCR198B6327HTSA1	SOT23	50	50	70	200	47	47
BCR198W	3k*	SP000757912	BCR198WH6327XTSA1	SOT323	50	50	70	250	47	47

### Dual $I_C \leq 100$ mA

BCR108S	3k*	SP000750774	BCR108SH6327XTSA1	SOT363	50	10	100	250	2.2	47
BCR108S	10k*	SP000750778	BCR108SH6433XTMA1	SOT363	50	10	100	250	2.2	47
BCR116S	3k*	SP000752050	BCR116SH6327XTSA1	SOT363	50	15	100	250	4.7	47
BCR119S	3k*	SP000754074	BCR119SH6327XTSA1	SOT363	50	15	100	250	4.7	–
BCR119S	10k*	SP000755042	BCR119SH6433XTMA1	SOT363	50	15	100	250	4.7	–
BCR129S	3k*	SP000755046	BCR129SH6327XTSA1	SOT363	50	20	100	250	10	–
BCR133S	3k*	SP000755050	BCR133SH6327XTSA1	SOT363	50	20	100	250	10	10
BCR133S	10k*	SP000755082	BCR133SH6433XTMA1	SOT363	50	20	100	250	10	10
BCR135S	3k*	SP000756248	BCR135SH6327XTSA1	SOT363	50	20	100	250	10	47
BCR141S	3k*	SP000756256	BCR141SH6327XTSA1	SOT363	50	30	100	250	22	22
BCR148S	3k*	SP000756262	BCR148SH6327XTSA1	SOT363	50	50	70	250	47	47
BCR148S	10k*	SP000756264	BCR148SH6433XTMA1	SOT363	50	50	70	250	47	47
BCR169S	3k*	SP000756842	BCR169SH6327XTSA1	SOT363	50	15	100	250	4.7	–
BCR183S	3k*	SP000756882	BCR183SH6327XTSA1	SOT363	50	20	100	250	10	10
BCR183U	3k*	SP000012552	BCR183UE6327HTSA1	SC74	50	20	100	250	10	10
BCR185S	3k*	SP000757888	BCR185SH6327XTSA1	SOT363	50	20	100	250	10	47
BCR198S	3k*	SP000757904	BCR198SH6327XTSA1	SOT363	50	50	70	250	47	47
BCR08PN	3k*	SP000750766	BCR08PNH6327XTSA1	SOT363	50	50	100	250	2.2	47
BCR08PN	3k*	SP000750772	BCR08PNH6727XTSA1	SOT363	50	50	100	250	2.2	47
BCR08PN	10k*	SP000750770	BCR08PNH6433XTMA1	SOT363	50	50	100	250	2.2	47
BCR10PN	3k*	SP000750782	BCR10PNH6327XTSA1	SOT363	50	25	100	250	10	10
BCR10PN	3k*	SP000750786	BCR10PNH6727XTSA1	SOT363	50	25	100	250	10	10
BCR10PN	10k*	SP000750788	BCR10PNH6730XTMA1	SOT363	50	25	100	250	10	10
BCR22PN	3k*	SP000757916	BCR22PNH6327XTSA1	SOT363	50	30	100	250	22	22
BCR22PN	10k*	SP000757920	BCR22PNH6433XTMA1	SOT363	50	30	100	250	22	22
BCR35PN	3k*	SP000757922	BCR35PNH6327XTSA1	SOT363	50	20	100	250	10	47
BCR35PN	10k*	SP000757928	BCR35PNH6433XTMA1	SOT363	50	20	100	250	10	47
BCR48PN	3k*	SP000757930	BCR48PNH6327XTSA1	SOT363	50	50/10	100	250	47/2.2	47/47

\* order unit

SMD = Surface Mounted Device



## General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings				Resistance Value	
				$V_{CEO}$	$V_{I(on) max}$	$I_C$	$P_{tot}$	$R_1$	$R_2$
				V	V	mA	mW	k $\Omega$	k $\Omega$

### Digital Transistors

#### Single $I_C \leq 500$ mA

BCR503	3k*	SP000010839	BCR503E6327HTSA1	SOT23	50	12	500	330	2.2	2.2
BCR505	3k*	SP000010841	BCR505E6327HTSA1	SOT23	50	12	500	330	2.2	10
BCR512	3k*	SP000010844	BCR512E6327HTSA1	SOT23	50	30	500	330	4.7	4.7
BCR521	3k*	SP000010845	BCR521E6327HTSA1	SOT23	50	10	500	330	1.0	1.0
BCR523	3k*	SP000010851	BCR523E6327HTSA1	SOT23	50	12	500	330	1.0	10
BCR523	10k*	SP000010852	BCR523E6433HTMA1	SOT23	50	12	500	330	1.0	10
BCR533	3k*	SP000010853	BCR533E6327HTSA1	SOT23	50	40	500	330	10	10
BCR553	3k*	SP000010854	BCR555E6327HTSA1	SOT23	50	12	500	330	2.2	2.2
BCR555	3k*	SP000010855	BCR555E6327HTSA1	SOT23	50	10	500	330	2.2	10
BCR555	10k*	SP000010857	BCR555E6433HTMA1	SOT23	50	10	500	330	2.2	10
BCR562	3k*	SP000010859	BCR562E6327HTSA1	SOT23	50	30	500	330	4.7	4.7
BCR573	3k*	SP000010861	BCR573E6327HTSA1	SOT23	50	12	500	330	1	10
BCR573	10k*	SP000010860	BCR573E6433HTMA1	SOT23	50	12	500	330	1	10
BCR583	3k*	SP000012278	BCR583E6327HTSA1	SOT23	50	20	500	330	10	10

#### Dual $I_C \leq 500$ mA

BCR523U	3k*	SP000013381	BCR523UE6327HTSA1	SC74	50	12	500	330	1.0	10
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\* order unit

SMD = Surface Mounted Device

# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_{\text{CEO}}$	$I_{\text{CM}}$	$h_{\text{FE}}$	at	$I_{\text{C}}$	$V_{\text{CE}}$
				V	mA			mA	V

## General Purpose Transistors

### Single $I_{\text{C}} \leq 100 \text{ mA}$

BC847A	3k*	SP000010571	BC847AE6327HTSA1	SOT23	45	200	110 ... 220	2	5
BC847B	3k*	SP000010559	BC847BE6327BTSA1	SOT23	45	200	200 ... 450	2	5
BC847B	10k*	SP000010576	BC847BE6433HTMA1	SOT23	45	200	200 ... 450	2	5
BC847BL3	15k*	SP000013553	BC847BL3E6327XTMA1	TSLP-3-1	45	200	200 ... 450	2	5
BC847BW	3k*	SP000746930	BC847BWH6327XTSA1	SOT323	45	200	200 ... 450	2	5
BC847BW	10k*	SP000746932	BC847BWH6433XTMA1	SOT323	45	200	200 ... 450	2	5
BC847C	3k*	SP000010565	BC847CE6327HTSA1	SOT23	45	200	420 ... 800	2	5
BC847C	10k*	SP000010590	BC847CE6433HTMA1	SOT23	45	200	420 ... 800	2	5
BC847CW	3k*	SP000746934	BC847CWH6327XTSA1	SOT323	45	200	420 ... 800	2	5
BC847CW	3k*	SP000747286	BC847CWH6778XTSA1	SOT323	45	200	420 ... 800	2	5
BC847CW	10k*	SP000747284	BC847CWH6433XTMA1	SOT323	45	200	420 ... 800	2	5
BC848A	3k*	SP000010568	BC848AE6327HTSA1	SOT23	30	200	110 ... 220	2	5
BC848B	3k*	SP000010561	BC848BE6327HTSA1	SOT23	30	200	200 ... 450	2	5
BC848B	10k*	SP000010581	BC848BE6433HTMA1	SOT23	30	200	200 ... 450	2	5
BC848BL3	15k*	SP000013554	BC848BL3E6327XTMA1	TSLP-3-1	30	200	200 ... 450	2	5
BC848BW	3k*	SP000747410	BC848BWH6327XTSA1	SOT323	30	200	200 ... 450	2	5
BC848C	3k*	SP000010552	BC848CE6327HTSA1	SOT23	30	200	420 ... 800	2	5
BC848C	10k*	SP000010582	BC848CE6433HTMA1	SOT23	30	200	420 ... 800	2	5
BC848CW	3k*	SP000747412	BC848CWH6327XTSA1	SOT323	30	200	420 ... 800	2	5
BC849B	3k*	SP000010567	BC849BE6327HTSA1	SOT23	30	200	200 ... 450	2	5
BC849C	3k*	SP000010564	BC849CE6327HTSA1	SOT23	30	200	420 ... 800	2	5
BC849CW	3k*	SP000747414	BC849CWH6327XTSA1	SOT323	30	200	420 ... 800	2	5
BC850B	3k*	SP000010572	BC850BE6327HTSA1	SOT23	45	200	200 ... 450	2	5
BC850BW	3k*	SP000747416	BC850BWH6327XTSA1	SOT323	45	200	200 ... 450	2	5
BC850C	3k*	SP000010563	BC850CE6327HTSA1	SOT23	45	200	420 ... 800	2	5
BC850CW	3k*	SP000747418	BC850CWH6327XTSA1	SOT323	45	200	420 ... 800	2	5
BC857A	3k*	SP000010639	BC857AE6327HTSA1	SOT23	45	200	125 ... 250	2	5
BC857B	3k*	SP000010633	BC857BE6327HTSA1	SOT23	45	200	220 ... 475	2	5
BC857B	10k*	SP000010648	BC857BE6433HTMA1	SOT23	45	200	220 ... 475	2	5
BC857BL3	3k*	SP000013556	BC857BL3E6327XTMA1	TSLP-3-1	45	200	220 ... 475	2	5
BC857BW	3k*	SP000747448	BC857BWH6327XTSA1	SOT323	45	200	220 ... 475	2	5
BC857BW	3k*	SP000747450	BC857BWH6778XTSA1	SOT323	45	200	220 ... 475	2	5
BC857C	3k*	SP000010640	BC857CE6327HTSA1	SOT23	45	200	420 ... 800	2	5
BC857C	10k*	SP000010660	BC857CE6433HTMA1	SOT23	45	200	420 ... 800	2	5
BC857CW	3k	SP000747452	BC857CWH6327XTSA1	SOT323	45	200	420 ... 800	2	5
BC857CW	10k*	SP000747454	BC857CWH6433XTMA1	SOT323	45	200	420 ... 800	2	5
BC858A	3k*	SP000010636	BC858AE6327HTSA1	SOT23	30	200	125 ... 250	2	5
BC858B	3k	SP000010634	BC858BE6327HTSA1	SOT23	30	200	220 ... 475	2	5
BC858B	10k*	SP000010652	BC858BE6433HTMA1	SOT23	30	200	220 ... 475	2	5
BC858BW	3k	SP000747582	BC858BWH6327XTSA1	SOT323	30	200	220 ... 475	2	5
BC858C	3k	SP000010624	BC858CE6327HTSA1	SOT23	30	200	420 ... 800	2	5
BC858C	10k*	SP000010654	BC858CE6433HTMA1	SOT23	30	200	420 ... 800	2	5
BC858CW	3k	SP000747584	BC858CWH6327XTSA1	SOT323	30	200	420 ... 800	2	5
BC859C	3k	SP000010637	BC859CE6327HTSA1	SOT23	30	200	420 ... 800	2	5

\* order unit

SMD = Surface Mounted Device

# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_{\text{CEO}}$	$I_{\text{CM}}$	$h_{\text{FE}}$	at	$I_{\text{C}}$	$V_{\text{CE}}$
				V	mA			mA	V

## General Purpose Transistors

### Single $I_{\text{C}} \leq 100 \text{ mA}$ (cont'd)

BCW60B	3k*	SP000010551	BCW60BE6327HTSA1	SOT23	32	200	180 ... 310	2	5
BCW60C	3k*	SP000010548	BCW60CE6327HTSA1	SOT23	32	200	250 ... 460	2	5
BCW60D	3k*	SP000010549	BCW60DE6327HTSA1	SOT23	32	200	380 ... 630	2	5
BCW61A	3k*	SP000010621	BCW61AE6327HTSA1	SOT23	32	200	120 ... 220	2	5
BCW61B	3k*	SP000010629	BCW61BE6327HTSA1	SOT23	32	200	180 ... 310	2	5
BCW61C	3k*	SP000010622	BCW61CE6327HTSA1	SOT23	32	200	250 ... 460	2	5
BCW61D	3k*	SP000010627	BCW61DE6327HTSA1	SOT23	32	200	380 ... 630	2	5
BCX70G	3k*	SP000010555	BCX70GE6327HTSA1	SOT23	45	200	120 ... 220	2	5
BCX70H	3k*	SP000010550	BCX70HE6327HTSA1	SOT23	45	200	180 ... 310	2	5
BCX70H	10k*	SP000010578	BCX70HE6433HTMA1	SOT23	45	200	180 ... 310	2	5
BCX70J	3k*	SP000010556	BCX70JE6327HTSA1	SOT23	45	200	250 ... 460	2	5
BCX70J	10k*	SP000010573	BCX70JE6433HTMA1	SOT23	45	200	250 ... 460	2	5
BCX70K	3k*	SP000010558	BCX70KE6327HTSA1	SOT23	45	200	380 ... 630	2	5
BCX71G	3k*	SP000010623	BCX71GE6327HTSA1	SOT23	45	200	120 ... 220	2	5
BCX71H	3k*	SP000010631	BCX71GE6327HTSA1	SOT23	45	200	180 ... 310	2	5
BCX71J	3k*	SP000010625	BCX71JE6327HTSA1	SOT23	45	200	250 ... 460	2	5
BCX71J	10k*	SP000010647	BCX71JE6433HTMA1	SOT23	45	200	250 ... 460	2	5
BCX71K	3k*	SP000010632	BCX71KE6327HTSA1	SOT23	45	200	380 ... 630	2	5

### Dual $I_{\text{C}} \leq 100 \text{ mA}$

BC846PN	3k*	SP000746856	BC846PNH6327XTSA1	SOT363	65	200	200 ... 450	2	5
BC846S	3k*	SP000746922	BC846SH6327XTSA1	SOT363	65	200	200 ... 450	2	5
BC846S	3k*	SP000746928	BC846SH6727XTSA1	SOT363	65	200	200 ... 450	2	5
BC846S	10k*	SP000746926	BC846SH6433XTMA1	SOT363	65	200	200 ... 450	2	5
BC846U	3k*	SP000012619	BC846UE6327HTSA1	SC74	65	100	200 ... 450	2	5
BC846UPN	3k*	SP000012621	BC846UPNE6327HTSA1	SC74	65	200	200 ... 450	2	5
BC847PN	3k*	SP000747288	BC847PNH6327XTSA1	SOT363	45	200	110 ... 630	2	5
BC847PN	3k*	SP000747296	BC847PNH6727XTSA1	SOT363	45	200	110 ... 630	2	5
BC847PN	10k*	SP000747292	BC847PNH6433XTMA1	SOT363	45	200	110 ... 630	2	5
BC847S	3k*	SP000747298	BC847SH6327XTSA1	SOT363	45	200	110 ... 630	2	5
BC847S	3k*	SP000747406	BC847SH6727XTSA1	SOT363	45	200	110 ... 630	2	5
BC847S	3k*	SP000857072	BC847SH6794XTSA1	SOT363	45	200	110 ... 630	2	5
BC847S	3k*	SP000747408	BC847SH6827XTSA1	SOT363	45	200	110 ... 630	2	5
BC847S	10k*	SP000747404	BC847SH6433XTMA1	SOT363	45	200	110 ... 630	2	5
BC856S	3k*	SP000747446	BC856SH6327XTSA1	SOT363	65	200	200 ... 475	2	5
BC856U	3k*	SP000012620	BC856UE6327HTSA1	SC74	65	100	200 ... 650	2	5
BC857S	3k*	SP000747456	BC857SH6327XTSA1	SOT363	45	200	200 ... 630	2	5
BC857S	3k*	SP000747578	BC857SH6794XTSA1	SOT363	45	200	200 ... 630	2	5
BC857S	3k*	SP000747580	BC857SH6827XTSA1	SOT363	45	200	200 ... 630	2	5
BC857S	10k*	SP000747576	BC857SH6433XTMA1	SOT363	45	200	200 ... 630	2	5

\* order unit

SMD = Surface Mounted Device



# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_{\text{CEO}}$	$I_{\text{CM}}$	$h_{\text{FE}}$	at	$I_{\text{C}}$	$V_{\text{CE}}$
				V	mA			mA	V

## General Purpose Transistors

### Single $I_{\text{C}} \leq 500 \text{ mA}$

BC817K-16	3k*	SP000271788	BC817K16E6327HTSA1	SOT23	45	1000	100 ... 250	100	1
BC817K-16	10k*	SP000271829	BC817K16E6433HTMA1	SOT23	45	1000	100 ... 250	100	1
BC817K-16W	3k*	SP000786164	BC817K16WH6327XTSA1	SOT323	45	1000	100 ... 250	100	1
BC817K-25	3k*	SP000271875	BC817K25E6327HTSA1	SOT23	45	1000	160 ... 400	100	1
BC817K-25	10k*	SP000271879	BC817K25E6433HTMA1	SOT23	45	1000	160 ... 400	100	1
BC817K-25W	3k*	SP000746848	BC817K25WH6327XTSA1	SOT323	45	1000	160 ... 400	100	1
BC817K-25W	10k*	SP000786166	BC817K25WH6433XTMA1	SOT323	45	1000	160 ... 400	100	1
BC817K-40	3k*	SP000271895	BC817K40E6327HTSA1	SOT23	45	1000	250 ... 630	100	1
BC817K-40	10k*	SP000271898	BC817K40E6433HTMA1	SOT23	45	1000	250 ... 630	100	1
BC817K-40W	3k*	SP000746850	BC817K40WH6327XTSA1	SOT323	45	1000	250 ... 630	100	1
BC817SU	3k*	SP000296413	BC817SUE6327HTSA1	SC74	45	1000	160 ... 400	100	1
BC818K-16W	3k*	SP000746852	BC818K16WH6327XTSA1	SOT323	25	1000	100 ... 250	100	1
BC818K-40	3k*	SP000271908	BC818K40E6327HTSA1	SOT23	25	1000	250 ... 630	100	1
BCW66KF	3k*	SP000271902	BCW66KFE6327HTSA1	SOT23	45	1000	100 ... 250	100	1
BCW66KG	3k*	SP000271904	BCW66KGE6327HTSA1	SOT23	45	1000	160 ... 400	100	1
BCW66KH	3k*	SP000271906	BCW66KHE6327HTSA1	SOT23	45	1000	250 ... 630	100	1
BCW66KH	10x3k*	SP000271905	BCW66KHB6327HTLA1	SOT23	45	1000	250 ... 630	100	1
BCW67B	3k*	SP000015035	BCW67BE6327HTSA1	SOT23	32	1000	160 ... 400	100	1
BCW67C	3k*	SP000015037	BCW67CE6327HTSA1	SOT23	32	1000	250 ... 630	100	1
BCW68F	3k*	SP000015041	BCW68FE6327HTSA1	SOT23	45	1000	100 ... 250	100	1
BCW68G	3k*	SP000015039	BCW68GE6327HTSA1	SOT23	45	1000	160 ... 400	100	1
BCW68H	3k*	SP000015040	BCW68HE6327HTSA1	SOT23	45	1000	250 ... 630	100	1
SMBTA06	3k*	SP000011686	SMBTA06E6327HTSA1	SOT23	80	500	$\geq 100$	100	1
SMBTA06	10k*	SP000011688	SMBTA06E6433HTMA1	SOT23	80	500	$\geq 100$	100	1
SMBTA56	3k*	SP000011692	SMBTA56E6327HTSA1	SOT23	80	500	$\geq 100$	100	1
SMBTA56	10k*	SP000011695	SMBTA56E6433HTMA1	SOT23	80	500	$\geq 100$	100	1

### Dual $I_{\text{C}} \leq 500 \text{ mA}$

BC807U	3k*	SP000012395	BC807UE6327HTSA1	SC74	45	500	160 ... 400	100	1
BC817U	3k*	SP000012394	BC817SUE6327HTSA1	SC74	45	1000	160 ... 400	100	1
BC817UPN	3k*	SP000012398	BC817UPNE6327HTSA1	SC74	45	1000	160 ... 400	100	1
SMBTA06UPN	3k*	SP000012393	SMBTA06UPNE6327HTSA1	SC74	80	500	$\geq 100$	100	1

\* order unit

SMD = Surface Mounted Device

# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_{\text{CEO}}$	$I_{\text{CM}}$	$h_{\text{FE}}$	at	$I_{\text{C}}$	$V_{\text{CE}}$
				V	mA			mA	V

## General Purpose Transistors

### Single $I_{\text{C}} \geq 500 \text{ mA}$

BDP947	1k*	SP000010931	BDP947E6327HTSA1	SOT223	45	5000	40 ... 475	500	1
BDP948	1k*	SP000010938	BDP948E6327HTSA1	SOT223	45	5000	40 ... 475	500	1
BDP948	4k*	SP000010943	BDP948E6433HTMA1	SOT223	45	5000	40 ... 475	500	1
BDP949	1k*	SP000010932	BDP949E6327HTSA1	SOT223	60	5000	40 ... 475	500	1
BDP950	1k*	SP000010939	BDP950E6327HTSA1	SOT223	60	5000	40 ... 475	500	1
BDP953	1k*	SP000010934	BDP953E6327HTSA1	SOT223	100	5000	40 ... 475	500	1
BDP954	1k*	SP000010941	BDP954E6327HTSA1	SOT223	100	5000	40 ... 475	500	1
BCP51	1k*	SP000010692	BCP51E6327HTSA1	SOT223	45	1500	40 ... 250	150	2
BCP51-16	1k*	SP000010694	BCP5116E6327HTSA1	SOT223	45	1500	100 ... 250	150	2
BCP51-16	4k*	SP000010703	BCP5116E6433HTMA1	SOT223	45	1500	100 ... 250	150	2
BCP52-16	1k*	SP000010696	BCP5216E6327HTSA1	SOT223	60	1500	100 ... 250	150	2
BCP53-10	1k*	SP000010697	BCP5310E6327HTSA1	SOT223	100	1500	63 ... 160	150	2
BCP53-16	1k*	SP000010698	BCP5316E6327HTSA1	SOT223	100	1500	100 ... 250	150	2
BCP53-16	4k*	SP000010702	BCP5316E6433HTMA1	SOT223	100	1500	100 ... 250	150	2
BCP54	1k*	SP000010707	BCP54E6327HTSA1	SOT223	45	1500	40 ... 250	150	2
BCP54-16	1k*	SP000010709	BCP5416E6327HTSA1	SOT223	45	1500	100 ... 250	150	2
BCP54-16	4k*	SP000010717	BCP5416E6433HTMA1	SOT223	45	1500	100 ... 250	150	2
BCP55	1k*	SP000010713	BCP55E6327HTSA1	SOT223	60	1500	40 ... 250	150	2
BCP55-16	1k*	SP000010711	BCP5516E6327HTSA1	SOT223	60	1500	100 ... 250	150	2
BCP56-10	1k*	SP000010712	BCP5610E6327HTSA1	SOT223	80	1500	63 ... 160	150	2
BCP56-16	1k*	SP000010706	BCP5616E6327HTSA1	SOT223	80	1500	100 ... 250	150	2
BCP69-25	1k*	SP000015154	BCP6925E6327HTSA1	SOT223	20	2000	160 ... 375	500	1
BCX51	1k*	SP000014826	BCX51E6327HTSA1	SOT89	45	1500	40 ... 250	150	2
BCX51-16	1k*	SP000014827	BCX5116E6327HTSA1	SOT89	45	1500	100 ... 250	150	2
BCX52	1k*	SP000014828	BCX52E6327HTSA1	SOT89	60	1500	40 ... 250	150	2
BCX52-16	1k*	SP000014830	BCX5216E6327HTSA1	SOT89	60	1500	100 ... 250	150	2
BCX52-16	4k*	SP000463248	BCX5216E6433HTMA1	SOT89	60	1500	100 ... 250	150	2
BCX53	1k*	SP000010906	BCX53E6327HTSA1	SOT89	80	1500	40 ... 250	150	2
BCX53-10	1k*	SP000010908	BCX5310E6327HTSA1	SOT89	80	1500	63 ... 160	150	2
BCX53-16	1k*	SP000010907	BCX5316E6327HTSA1	SOT89	80	1500	100 ... 250	150	2
BCX53-16	4k*	SP000010909	BCX5316E6433HTMA1	SOT89	80	1500	100 ... 250	150	2
BCX54-16	1k*	SP000010918	BCX5416E6327HTSA1	SOT89	45	1500	100 ... 250	150	2
BCX55	1k*	SP000010916	BCX55E6327HTSA1	SOT89	60	1500	40 ... 250	150	2
BCX55-16	1k*	SP000010920	BCX5516E6327HTSA1	SOT89	60	1500	100 ... 250	150	2
BCX55-16	4k*	SP000010922	BCX5516E6433HTMA1	SOT89	60	1500	100 ... 250	150	2
BCX56	1k*	SP000010914	BCX56E6327HTSA1	SOT89	80	1500	40 ... 250	150	2
BCX56-10	1k*	SP000010915	BCX5610E6327HTSA1	SOT89	80	1500	63 ... 160	150	2
BCX56-16	1k*	SP000010913	BCX5616E6327HTSA1	SOT89	80	1500	100 ... 250	150	2
BCX56-16	4k*	SP000017942	BCX5616E6433HTMA1	SOT89	80	1500	100 ... 250	150	2
BCX68-10	1k*	SP000010924	BCX6810E6327HTSA1	SOT89	20	2000	85 ... 160	500	1
BCX68-16	1k*	SP000010925	BCX6816E6327HTSA1	SOT89	20	2000	100 ... 250	150	2
BCX68-25	1k*	SP000010926	BCX6825E6327HTSA1	SOT89	20	2000	160 ... 375	500	1
BCX69-10	1k*	SP000010928	BCX6910E6327HTSA1	SOT89	20	2000	85 ... 160	500	1
BCX69-16	1k*	SP000010929	BCX6916E6327HTSA1	SOT89	20	2000	100 ... 250	500	1
BCX69-25	1k*	SP000010930	BCX6925E6327HTSA1	SOT89	20	2000	160 ... 375	500	1

\* order unit

SMD = Surface Mounted Device



# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_{\text{CEO}}$	$I_{\text{CM}}$	$h_{\text{FE}}$	at	$I_{\text{C}}$	$V_{\text{CE}}$
				V	mA			mA	V

## General Purpose Transistors

### Dual Transistors for Current Mirror Applications

BCV61B	3k*	SP000010886	BCV61BE6327HTSA1	SOT143	30	200	200 ... 450	100	5
▼ BCV61B	10k*	SP000010888	BCV61BE6433HTMA1	SOT143	30	200	200 ... 450	100	5
BCV61C	3k*	SP000010887	BCV61CE6327HTSA1	SOT143	30	200	420 ... 800	100	5
BCV62A	3k*	SP000010889	BCV62AE6327HTSA1	SOT143	30	200	125 ... 220	100	5
BCV62B	3k*	SP000010890	BCV62AE6327HTSA1	SOT143	30	200	220 ... 475	100	5
BCV62B	10k*	SP000010893	BCV62BE6433HTMA1	SOT143	30	200	220 ... 475	100	5
BCV62C	3k*	SP000010891	BCV62CE6327HTSA1	SOT143	30	200	420 ... 800	100	5

### Precision Matched Dual Transistors ( $I_{\text{C}} \leq 10\%$ )

BCM846S	3k*	SP000747590	BCM846SH6327XTSA1	SOT363	65	200	200 ... 650	2	5
BCM856S	3k*	SP000747592	BCM856SH6327XTSA1	SOT363	65	200	200 ... 450	2	5
BCM856S	3k*	SP000747596	BCM856SH6778XTSA1	SOT363	65	200	200 ... 450	2	5
BCM856S	10k*	SP000747594	BCM856SH6433XTMA1	SOT363	65	200	200 ... 450	2	5

### Low Noise Transistors (Noise Figure $\leq$ a dB @ 1 kHz)

BCW60FF	3k*	SP000010554	BCW60FFE6327HTSA1	SOT23	32	200	250 ... 460	2	5
BC860B	3k*	SP000010642	BC860BE6327HTSA1	SOT23	45	200	220 ... 475	2	5
BC860BW	3k*	SP000747586	BC860BWH6327XTSA1	SOT323	45	200	220 ... 475	2	5
BC860CW	3k*	SP000747588	BC860CWH6327XTSA1	SOT323	45	200	420 ... 800	2	5

### Fast Switching Transistors (Storage Time $\leq 1\ \mu\text{s}$ )

SMBT2222A	3k*	SP000011176	SMBT2222AE6327HTSA1	SOT23	40	-	100 ... 300	150	10
SMBT2907A	3k*	SP000011181	SMBT2907AE6327HTSA1	SOT23	60	-	100 ... 300	150	10
SMBT3904	3k*	SP000011673	SMBT3904E6327HTSA1	SOT23	40	200	100 ... 300	10	1
SMBT3904	10k*	SP000011675	SMBT3904E6433HTMA1	SOT23	40	200	100 ... 300	10	1
SMBT3906	3k*	SP000011680	SMBT3906E6327HTSA1	SOT23	40	200	100 ... 300	10	1

### Fast Switching Dual Transistors (Storage Time $\leq 1\ \mu\text{s}$ )

SMBT3904S	3k*	SP000749590	SMBT3904SH6327XTSA1	SOT363	40	200	100 ... 300	10	1
SMBT3904PN	3k*	SP000749584	SMBT3904PNH6327XTSA1	SOT363	40	200	100 ... 300	10	1
SMBT3904UPN	3k*	SP000012617	SMBT3904UPNE6327HTSA1	SC74	40	200	100 ... 300	10	1
SMBT3906S	3k*	SP000749596	SMBT3906SH6327XTSA1	SOT363	40	200	100 ... 300	10	1
SMBT3906U	3k*	SP000012616	SMBT3906UE6327HTSA1	SC74	40	200	100 ... 300	10	1

\* order unit

SMD = Surface Mounted Device

# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )			
				$V_{\text{CEO}}$	$I_{\text{CM}}$	$h_{\text{FE}}$	at	$I_{\text{C}}$	$V_{\text{CE}}$
				V	mA			mA	V

## General Purpose Transistors

### High Voltage Transistors ( $V_{\text{CEP}} \geq 100 \text{ V}$ )

BCX41	3k*	SP000010894	BCX41E6327HTSA1	SOT23	125	1000	$\geq 63$	100	1
BCX41	10k*	SP000010896	BCX41E6433HTMA1	SOT23	125	1000	$\geq 63$	100	1
BCX42	3k*	SP000010900	BCX42E6327HTSA1	SOT23	125	1000	$\geq 63$	100	1
BCX42	10k*	SP000010902	BCX42E6433BTMA1	SOT23	125	1000	$\geq 63$	100	1
BFN18	1k*	SP000010997	BFN18E6327HTSA1	SOT89	300	500	$\geq 30$	30	10
BFN19	1k*	SP000010998	BFN19E6327HTSA1	SOT89	300	500	$\geq 30$	30	10
BFN24	3k*	SP000014784	BFN24E6327HTSA1	SOT23	250	500	$\geq 40$	30	10
BFN26	3k*	SP000014785	BFN26E6327HTSA1	SOT23	300	500	$\geq 30$	30	10
BFN26	10k*	SP000014786	BFN26E6433HTMA1	SOT23	300	500	$\geq 30$	30	10
BFN27	3k*	SP000014782	BFN27E6327HTSA1	SOT23	300	500	$\geq 30$	30	10
BFN38	1k*	SP000011006	BFN26E6327HTSA1	SOT223	300	500	$\geq 30$	30	10
BFN39	1k*	SP000014781	BFN39E6327HTSA1	SOT223	300	500	$\geq 30$	30	10
SMBTA42	3k*	SP000011000	SMBTA42E6327HTSA1	SOT23	300	500	$\geq 40$	30	10
PZTA42	1k*	SP000010480	PZTA42E6327HTSA1	SOT223	300	500	$\geq 40$	30	10
SMBTA92	3k*	SP000011004	SMBTA92E6327HTSA1	SOT23	300	500	$\geq 25$	30	10
PZTA92	4k*	SP000011009	PZTA92E6433HTMA1	SOT223	300	500	$\geq 25$	30	10

### Darlington Transistors ( $h_{\text{FE}} \geq 2000$ )

BCP49	1k*	SP000010685	BCP49E6327HTSA1	SOT223	60	800	$\geq 10000$	100	5
BCV26	3k*	SP000010874	BCV26E6327HTSA1	SOT23	30	500	$\geq 20000$	100	5
BCV27	3k*	SP000010865	BCV27E6327HTSA1	SOT23	30	800	$\geq 20000$	100	5
BCV28	1k*	SP000010879	BCV28E6327HTSA1	SOT89	30	800	$\geq 20000$	100	5
BCP29	1k*	SP000010883	BCV29E6327HTSA1	SOT89	30	800	$\geq 20000$	100	5
BCV46	3k*	SP000010873	BCV46E6327HTSA1	SOT23	60	500	$\geq 10000$	100	5
BCV47	3k*	SP000010866	BCV47E6327HTSA1	SOT23	60	800	$\geq 10000$	100	5
BCV47	10k*	SP000010864	BCV47E6433HTMA1	SOT23	60	800	$\geq 10000$	100	5
BCV48	1k*	SP000010880	BCV47E6327HTSA1	SOT89	60	800	$\geq 10000$	100	5
BCV49	1k*	SP000010882	BCV49E6327HTSA1	SOT89	60	800	$\geq 10000$	100	5
BSP50	1k*	SP000011126	BSP50E6327HTSA1	SOT223	45	2000	$\geq 2000$	500	10
BSP51	1k*	SP000011127	BSP51E6327HTSA1	SOT223	60	2000	$\geq 2000$	500	10
BSP52	1k*	SP000011128	BSP52E6327HTSA1	SOT223	80	2000	$\geq 2000$	500	10
BSP60	1k*	SP000011131	BSP60E6327HTSA1	SOT223	45	2000	$\geq 2000$	500	10
BSP61	1k*	SP000011132	BSP61E6327HTSA1	SOT223	60	2000	$\geq 2000$	500	10
BSP62	1k*	SP000011133	BSP62E6327HTSA1	SOT223	80	2000	$\geq 2000$	500	10
PZTA14	1k*	SP000010688	PZTA14E6327HTSA1	SOT223	30	500	$\geq 20000$	100	5
SMBTA14	3k*	SP000010872	SMBTA14E6327HTSA1	SOT23	30	500	$\geq 20000$	100	5

\* order unit

SMD = Surface Mounted Device

# General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
				$V_R$	$I_F$	$V_F$	at	$I_F$
				V	mA	V		mA

## General Purpose Diodes

$I_{F(\max)} \leq 250 \text{ mA}$

BAL74	3k*	SP000014992	BAL74E6327HTSA1	SOT23	50	250	$\leq 1.0$	100
BAL99	3k*	SP000010159	BAL99E6327HTSA1	SOT23	70	250	$\leq 1.25$	150
BAL99	10k*	SP000010161	BAL99E6433HTMA1	SOT23	70	250	$\leq 1.25$	150
BAR74	3k*	SP000010202	BAR74E6327HTSA1	SOT23	50	250	$\leq 1.0$	100
BAS16	3k*	SP000010203	BAS16E6327HTSA1	SOT23	75	250	$\leq 1.25$	150
BAS16	10k*	SP000010201	BAS16E6433HTMA1	SOT23	75	250	$\leq 1.25$	150
BAS16-02L	15k*	SP000013548	BAS1602LE6327XTMA1	TSLP-2-1	75	250	$\leq 1.25$	150
BAS16-02V	3k*	SP000752008	BAS1602VH6327XTSA1	SC79	75	250	$\leq 1.25$	150
▼ BAS16S (Triple)	3k*	SP000753162	BAS16SH6327XTSA1	SOT323	80	200	$\leq 1.25$	150
▼ BAS16S (Triple)	3k*	SP000753164	BAS16SH6727XTSA1	SOT323	80	200	$\leq 1.25$	150
▼ BAS16U (Triple)	3k*	SP000012608	BAS16UE6327HTSA1	SOT323	80	200	$\leq 1.25$	150
BAS16W	3k*	SP000753166	BAS16WH6327XTSA1	SOT323	75	250	$\leq 1.25$	150
BAS16W	10k*	SP000753168	BAS16WH6433XTMA1	SOT323	75	250	$\leq 1.25$	150
BAS16-02W	3k*	SP000752010	BAS21UE6327BTS1	SCD80	75	200	$\leq 1.25$	150
BAS16-03W	3k*	SP000010213	BAS1603WE6327HTSA1	SOD323	75	250	$\leq 1.25$	150
BAS21	3k*	SP000010217	BAS21E6327HTSA1	SOT23	200	250	$\leq 1.25$	200
BAS21	10k*	SP000010219	BAS21E6433HTMA1	SOT23	200	250	$\leq 1.25$	200
BAS21-03W	3k*	SP000012522	BAS2103WE6327HTSA1	SOD323	200	250	$\leq 1.25$	200
BAS21-03W	10k*	SP000082470	BAS2103WE6433HTMA1	SOD323	200	250	$\leq 1.25$	200
BAS21U (Triple)	3k*	SP000012610	BAS21UE6327HTSA1	SC74	200	250	$\leq 1.25$	200
BAS21U (Triple)	10k*	SP000471142	BAS21UE6433HTMA1	SC74	200	250	$\leq 1.25$	200
BAS28 (Dual)	3k*	SP000010225	BAS28E6327HTSA1	SOT143	80	200	$\leq 1.25$	150
BAS28 (Dual)	10k*	SP000010228	BAS28E6433HTMA1	SOT143	80	200	$\leq 1.25$	150
BAS28W (Dual)	3k*	SP000753170	BAS28WH6327XTSA1	SOT343	80	200	$\leq 1.25$	150
BAV70 (Dual)	3k*	SP000014923	BAV70E6327HTSA1	SOT23	80	200	$\leq 1.25$	150
BAV70 (Dual)	10k*	SP000014924	BAV70E6433HTMA1	SOT23	80	200	$\leq 1.25$	150
BAV70S (Quad)	3k*	SP000753172	BAV70SH6327XTSA1	SOT363	80	200	$\leq 1.25$	150
BAV70S (Quad)	3k*	SP000753176	BAV70SH6727XTSA1	SOT363	80	200	$\leq 1.25$	150
BAV70S (Quad)	3k*	SP000753178	BAV70SH6827XTSA1	SOT363	80	200	$\leq 1.25$	150
BAV70U (Quad)	3k*	SP000012931	BAV70UE6327HTSA1	SC74	80	200	$\leq 1.25$	150
BAV70W (Dual)	3k*	SP000754042	BAV70WH6327XTSA1	SOT323	80	200	$\leq 1.25$	150
BAV99S (Quad)	3k*	SP000754046	BAV99SH6327XTSA1	SOT363	80	200	$\leq 1.25$	150
BAV99S (Quad)	10k*	SP000754048	BAV99SH6433XTMA1	SOT363	80	200	$\leq 1.25$	150
BAV99U (Quad)	3k*	SP000012613	BAV99UE6327HTSA1	SC74	80	200	$\leq 1.25$	150
BAW101 (Dual)	3k*	SP000010363	BAW101E6327HTSA1	SOT143	300	250	$\leq 1.3$	100
BAW101 (Dual)	10k*	SP000010364	BAW101E6433HTMA1	SOT143	300	250	$\leq 1.3$	100
BAW56S (Quad)	3k*	SP000754060	BAW56SH6327XTSA1	SOT363	80	200	$\leq 1.25$	150
BAW56S (Quad)	3k*	SP000754064	BAW56SH6727XTSA1	SOT363	80	200	$\leq 1.25$	150
BAW56U (Quad)	3k*	SP000014993	BAW56UE6327HTSA1	SC74	80	200	$\leq 1.25$	150
BAW56U (Quad)	10k*	SP000492394	BAW56UE6433HTMA1	SC74	80	200	$\leq 1.25$	150
SMBD914	3k*	SP000010209	SMBD914E6327HTSA1	SOT23	70	250	$\leq 1.0$	100
SMBD7000 (Dual)	3k*	SP000014938	SMBD7000E6327HTSA1	SOT23	100	200	$\leq 1.1$	100

\* order unit

SMD = Surface Mounted Device



## General Purpose Diodes & Transistors

Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		Characteristics ( $T_A = 25^\circ\text{C}$ )		
				$V_R$	$I_F$	$V_F$	at	$I_F$
				V	mA	V		mA

### General Purpose Diodes

$I_{F(\max)} \leq 1000 \text{ mA}$

BAW78 D	1k*	SP000010370	BAW78DE6327HTSA1	SOT89	400	1000	$\leq 2.00$	2000
BAW79 D (Dual)	1k*	SP000014594	BAW79DE6327HTSA1	SOT89	400	1000	$\leq 2.00$	2000

### Low Leakage

BAS116	3k*	SP000010194	BAS116E6327HTSA1	SOT23	75	250	$\leq 1.25$	150
BAS116	10k*	SP000010196	BAS116E6433HTMA1	SOT23	75	250	$\leq 1.25$	150
BAV170 (Dual)	3k*	SP000010325	BAV170E6327HTSA1	SOT23	80	200	$\leq 1.25$	150
BAV170 (Dual)	10k*	SP000010332	BAV170E6433HTMA1	SOT23	80	200	$\leq 1.25$	150
BAV199 (Dual)	3k*	SP000010326	BAV199E6327HTSA1	SOT23	80	200	$\leq 1.25$	150
BAV199 (Dual)	10k*	SP000010330	BAV199E6433HTMA1	SOT23	80	200	$\leq 1.25$	150
BAW156 (Dual)	3k*	SP000010327	BAW156E6327HTSA1	SOT23	80	20	$\leq 1.25$	150

### Bridge Rectifier

BGX50 A	3k*	SP000011092	BGX50AE6327HTSA1	SOT143	50	140	$\leq 1.30$	100
BAS3007A-RPP	3k*	SP000356003	BAS3007ARPPE6327HTSA1	SOT143	30	350	$\leq 0.40$	100
BAS4002A-RPP	3k*	SP000443736	BAS4002ARPPE6327HTSA1	SOT143	40	200	$\leq 0.62$	100

\* order unit

SMD = Surface Mounted Device



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## LED Driver & Lighting ICs

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LED Drivers for Outdoor & Indoor Lighting . . . . .	179
Switch-Mode and Linear LED Drivers for Automotive Lighting Applications. . . . .	180



Type	Ordering Code	Orderable Part Number	Package	Maximum Ratings		
				$V_{S(max)}$	$I_{out (typ)}$	$I_{out (max)}$
				V	mA	mA

**LED Drivers for Outdoor & Indoor Lighting****LED Controller for 0.5 W LEDs**

BCR320U	3k*	SP000665920	BCR320UE6327HTSA1	SC74	24	250	300
BCR321U	3k*	SP000665918	BCR321UE6327HTSA1	SC74	24	250	300
BCR420U	3k*	SP000665924	BCR420UE6327HTSA1	SC74	40	150	200
BCR421U	3k*	SP000665922	BCR421UE6327HTSA1	SC74	40	150	200

**LED Controller for 1 W up to 3 W LEDs**

BCR450	3k*	SP000394437	BCR450E6327HTSA1	SC74	27	70	-
▼ ILD1151	2.5k*	SP000890052	ILD1151XUMA1	PG-SSOP-14	45	90	-
ILD4001	3k*	SP000777082	ILD4001E6327HTSA1	SC74	42	10	-

**LED Drivers for Low Power LEDs**

BCR205W	3k*	SP000866560	BCR205WH6327XTSA1	SOT143	18	0.5	-
BCR401R	3k*	SP000013678	BCR401RE6327HTSA1	SOT143	18	10	60
▼ BCR401R	10k*	SP000839202	BCR401RE6433HTMA1	SOT143	18	10	60
BCR401U	3k*	SP000311546	BCR401UE6327HTSA1	SC74	40	10	65
BCR401W	3k*	SP000745174	BCR401WH6327XTSA1	SOT343	18	10	60
BCR402R	3k*	SP000013057	BCR402RE6327HTSA1	SOT143	18	20	60
▼ BCR402R	10k*	SP000839204	BCR402RE6433HTMA1	SOT143	18	20	60
BCR402U	3k*	SP000013482	BCR402UE6327HTSA1	SC74	40	20	65
BCR402W	3k*	SP000745922	BCR402WH6327XTSA1	SOT343	18	20	60
BCR405U	3k*	SP000013481	BCR405UE6327HTSA1	SC74	40	50	65

**LED Drivers for High Power LEDs**

▼ ILD2035	3k*	SP000929218	ILD2035E6327HTSA1	SC74	22	350	400
ILD4035	3k*	SP000694112	ILD4035E6327HTSA1	SC74	40	350	400
ILD4120	2.5k*	SP000785284	ILD4120E6327XUMA1	PG-DSO-8-27	40	1200	1200
ILD4180	2.5k*	SP000750736	ILD4180XUMA1	PG-DSO-8-27	45	1800	1800
TLE4309G	1k*	SP000299342	TLE4309GATMA1	PG-TO263-7-1	24	500	500

SMD = Surface Mounted Device

# LED Driver & Lighting ICs

Type	Ordering Code	Orderable Part Number	Package	Description
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## Switch-Mode and Linear LED Drivers for Automotive Lighting Applications

### Basic LED Driver ICs

TLE4240-2M	SP000255105	TLE42402MHTSA1	SCT595	Lowdrop LED driver, 58 mA current output, tape & reel
TLE4240-3M	SP000255106	TLE42403MHTSA1	SCT595	Lowdrop LED driver, 58 mA current output, open load detection, tape & reel
TLE4241GM	SP000410436	TLE4241GMFUMA1	PG-DSO-8-9	Lowdrop LED driver, with adjustable current output (8/65 V), Inhibit, tape & reel
TLE4242G	SP000299340	TLE4242GATMA1	PG-TO263-7-1	Lowdrop LED driver, with adjustable current output up to 500 mA, Inhibit, tape & reel
TLD1211SJ	SP000735204	TLD1211SJFUMA1	PG-DSO-8-16	Basic LED driver, high side current source, 1 channel, typical 85 mA load current, up to 2.5 A load current using external transistors, tape & reel

### Power LED Driver ICs

▼ TLD5045EJ	SP000769888	TLD5045EJXUMA1	PG-DSO-8 EP	Power LED driver, 700 mA high integration DC/DC step-down converter, constant current generation, peak current regulation, tape & reel
TLD5085EJ	SP000550912	TLD5085EJFUMA1	PG-DSO-8 EP	Power LED driver, 1.8 A DC/DC step-down converter, constant current or constant voltage regulation, PWM dimming, tape & reel
TLD5095EL	SP000464524	TLD5095ELXUMA1	PG-SSOP-14 EP	Power LED driver, DC/DC Boost, Buck Boost, SEPIC controller, constant current or constant voltage regulation, Enable function, implemented status pin to indicate fault conditions, tape & reel
TLD5098EL	SP000671268	TLD5098ELXUMA1	PG-SSOP-14 EP	Power LED driver, DC/DC Boost, Buck Boost, SEPIC controller, constant current or constant voltage regulation, Enable function, analog dimming feature to adjust average LED current, tape & reel

### Off-Line LED Driver ICs

ICL8001G	SP000773086	ICL8001GXUMA1	PG-DSO-8-1	LED driver for ultra-high-power LEDs, with adjustable up to 1.8 A constant current, integrated power stage, dimmable solutions, tape & reel
▼ ICL8082G	SP000899842	ICLS8082GXUMA1	PG-DSO-12-1	Off-line LED controller for PFC and dimming with integrated 800 V CoolMOS™, tape & reel
▼ ICLS6021J	SP000869140	ICLS6021JXKLA1	PG-DIP-8-6	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 1.6 A, tube
▼ ICLS6022G	SP000897654	ICLS6022GXUMA1	PG-DSO-16/12	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 2.3 A, tape & reel
▼ ICLS6022J	SP000877356	ICLS6022JXKLA1	PG-DIP-8-6	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 2.3 A, tube
▼ ICLS6023J	SP000890998	ICLS6023JXKLA1	PG-DIP-8-6	Off-line LED current mode controller with integrated 650 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 6.1 A, tube
▼ ICLS6023Z	SP000891000	ICLS8023ZXKLA1	PG-DIP-7-1	Off-line LED current mode controller with integrated 800 V CoolMOS™ & startup cell, for non-dimmable solutions, pulse drain current 4.9 A, tube

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description
<b>Switch-Mode and Linear LED Drivers for Automotive Lighting Applications</b>				
<b>Smart Ballast Control ICs for Fluorescent Lamp Ballasts</b>				
■ ICB1FL02G	SP000204703	ICB1FL02GXUMA1	SO-18/1	PFC, ballast control and half-bridge driver in one IC, tape & reel
■ ICB1FL03G	SP000626792	ICB1FL03GXUMA1	SO-18/2	PFC, ballast control and half-bridge driver in one IC, tape & reel
ICB2FL01G	SP000363741	ICB2FL01GXUMA1	SO-19	2nd generation FL-controller for fluorescent lamp ballasts, tape & reel
ICB2FL02G	SP000555574	ICB2FL02GXUMA1	SO-19	2nd generation FL-controller for fluorescent lamp ballasts, optimized to operating frequency and detection threshold, tape & reel

SMD = Surface Mounted Device





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## Sensors

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Type	Ordering Code	Orderable Part Number	Package	Data		
				Pressure Range	$V_s$	Accuracy
				kPa	V	kPa

**Pressure Sensors****Barometric Air Pressure Sensors (BAP)**

KP234	SP000700772	KP234XTMA1	PG-DSOF-8	15 ... 115	0.20 ... 4.70	1.5
KP235	SP000700776	KP235XTMA1	PG-DSOF-8	40 ... 115	0.50 ... 4.50	1.2
KP236	SP000700780	KP236XTMA1	PG-DSOF-8	40 ... 115	0.50 ... 4.50	1.0
KP236N6165	SP000700784	KP236N6165XTMA1	PG-DSOF-8	60 ... 165	0.20 ... 4.80	1.0

**Manifold Pressure Sensors (MAP)**

KP214N2611	SP000763326	KP214N2611XTMA1	PG-DSOF-8	20 ... 115	0.40 ... 4.65	1.5
KP215F1701	SP000698278	KP215F1701XTMA1	PG-DSOF-8	10 ... 115	0.40 ... 4.65	1.4
KP216K1409	SP000698288	KP216K1416XTMA1	PG-DSOF-8	15 ... 115	0.50 ... 4.50	1.0
KP219N3621	SP000824058	KP219N3621XTMA1	PG-DSOF-8	15 ... 102	0.40 ... 4.65	1.5
KP216H1416	SP000698282	KP216H1416XTMA1	PG-DSOF-8	50 ... 150	0.50 ... 4.50	1.0
KP229E2701	SP000699514	KP229E2701XTMA1	PG-DSOF-8	10 ... 300	0.50 ... 4.50	2.5
KP229E3518	SP000808692	KP229E2701XTMA1	PG-DSOF-8	50 ... 350	0.50 ... 4.50	4.0
KP229L2920	SP000788810	KP229L2920XTMA1	PG-DSOF-8	60 ... 260	0.30 ... 4.70	3.5

Type	Ordering Code	Orderable Part Number	Package	Data		
				Pressure Range	$V_s$	Integrated g-Sensor
				kPa	V	

**System-in-a-Package Tire Pressure Sensor (TPMS)**

SP370-23-10.6-0	SP000707702	SP370231060XTMA1	PG-DSOSP-14	100 ... 450	1.9 ... 3.6	yes
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SMD = Surface Mounted Device

# Sensors

Type	Ordering Code	Orderable Part Number	Package	Characteristics			
				Application	Direction Detection (PWM)	Description	Type of Hysteresis

## Magnetic Sensors

### Rotational Speed Sensors (Hall)

TLE4921-5U	SP000013593	TLE49215UHALA1	PG-SSO-4	Transmission Crankshaft	-	-	visible fixed
TLE4923	SP000011875	TLE4923HALA1	PG-SSO-3	ABS Transmission	-	-	visible fixed
TLE4924C-1 E6547	SP000718170	TLE4924C1E6547HAMA1	PG-SSO-3	Crankshaft	-	-	visible fixed
▼ TLE4924C-1N E6547	SP000718184	TLE4924C1NE6547HAMA1	PG-SSO-3	Crankshaft	-	-	visible fixed
TLE4924C-2 E6547	SP000718250	TLE4924C2E6547HAMA1	PG-SSO-3	Crankshaft	-	-	visible adaptive
TLE4924C-2 E6947	SP000442290	TLE4924C2E6947HAMA1	PG-SSO-3	Crankshaft	-	-	visible adaptive
▼ TLE4924C-2N E6547	SP000718254	TLE4924C2NE6547HAMA1	PG-SSO-3	Crankshaft	-	-	visible adaptive
▼ TLE4926C-HTN E6547	SP000718262	TLE4926CHTNE6547HAMA1	PG-SSO-3	Crankshaft	-	-	hidden fixed
TLE4927C E6547	SP000718266	TLE4927CE6547HAMA1	PG-SSO-3	Transmission Crankshaft	-	standard tin plating	hidden adaptive
▼ TLE4927C-N E6547	SP000718270	TLE4927CNE6547HAMA1	PG-SSO-3	Transmission Crankshaft	-	nickel plating	hidden adaptive
▼ TLE4928	SP000700818	TLE4928HALA1	PG-SSO-3	Transmission Crankshaft	-	-	hidden fixed
TLE4928C E6547	SP000718274	TLE4928CE6547HAMA1	PG-SSO-3	Transmission Crankshaft	-	-	hidden fixed
TLE4941	SP000015115	TLE4941HALA1	PG-SSO-2	ABS Transmission	-	-	hidden fixed
TLE4941C	SP000710666	TLE4941CBAMA1	PG-SSO-2	ABS Transmission	-	-	hidden fixed
TLE4941 PLUSC	SP000478508	TLE4941PLUSCAAMA1	PG-SSO-2	ABS Transmission	-	-	hidden fixed
TLE4941-1	SP000014942	TLE49411HALA1	PG-SSO-2	ABS Transmission	-	-	hidden fixed
TLE4941-1C	SP000710654	TLE49411CBAMA1	PG-SSO-2	ABS Transmission	-	-	hidden fixed
TLE4942-1	SP000015067	TLE49421HALA1	PG-SSO-2	ABS Transmission	yes	-	hidden fixed
TLE4942-1C	SP000710676	TLE49421CBAMA1	PG-SSO-2	ABS Transmission	yes	-	hidden fixed
TLE4953	SP000278512	TLE4953HALA1	PG-SSO-2	Transmission	yes	yes	visible adaptive
TLE4953C	SP000710696	TLE4953CBAMA1	PG-SSO-2	Transmission	yes	yes	visible adaptive
TLE4983C-HT E6747	SP000374275	TLE4983CHTE6747HAMA1	PG-SSO-3	Camshaft	-	4.7/47 nF capacitors with standard tin plating	hidden fixed
▼ TLE4983C-HTN E6747	SP000374272	TLE4983CHTNE6747HAMA1	PG-SSO-3	Camshaft	-	4.7/47 nF capacitors with standard nickel plating	hidden fixed
TLE4984C-HT E6747	SP000374268	TLE4984CHTE6747HAMA1	PG-SSO-3	Camshaft	-	4.7/47 nF capacitors with standard tin plating	hidden fixed

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Characteristics			
				Application	Direction Detection (PWM)	Description	Type of Hysteresis

**Magnetic Sensors****Rotational Speed Sensors (iGMR)**

TLE5025C E6747	SP000317777	TLE5025CE6747HAMA1	PG-SSO-3	Transmission Crankshaft	-	-	hidden adaptive
TLE5027C E6747	SP000317779	TLE5027CE6747HAMA1	PG-SSO-3	Transmission Crankshaft	yes	-	hidden adaptive

SMD = Surface Mounted Device

# Sensors

Type	Ordering Code	Orderable Part Number	Package	Description		
				$B_{OP}$ (25°C typ.) mT	Type	Direction Detection

## Magnetic Sensors

### Hall-Effect Switches Chopped (automotive)

TLE4906K	SP000475028	TLE4906KHTSA1	PG-SC59-3	10.0	Unipolar	no
▼ TLE4906-2K	SP000868840	TLE49062KHTSA1	PG-SC59-3	18.0	Unipolar	no
▼ TLE4906-3K	SP000868844	TLE49063KHTSA1	PG-SC59-3	28.0	Unipolar	no
TLE4906L	SP000012949	TLE4906LHALA1	PG-SSO-3	10.0	Unipolar	no
TLE4946K	SP000392737	TLE4946KHTSA1	PG-SC59-3	14.0	Latch	no
TLE4946-2K	SP000472424	TLE49462KHTSA1	PG-SC59-3	2.0	Latch	no
TLE4946-1L	SP000015003	TLE49461LHALA1	PG-SSO-3	15.0	Latch	no
TLE4946-2L	SP000398352	TLE49462LHALA1	PG-SSO-3	2.0	Latch	no
▼ TLE4961-1K	SP000848008	TLE49611KXTSA1	PG-SC59-3	2.0	Latch	no
▼ TLE4961-3K	SP000848004	TLE49613KXTSA1	PG-SC59-3	7.5	Latch	no
▼ TLE4961-5K	SP000910192	TLE49615KXTSA1	PG-SC59-3	15.0	Latch	no
▼ TLE4964-1K	SP000848000	TLE49641KXTSA1	PG-SC59-3	18.0	Unipolar	no
▼ TLE4964-2K	SP000847996	TLE49642KXTSA1	PG-SC59-3	28.0	Unipolar	no
▼ TLE4964-3K	SP000910188	TLE49643KXTSA1	PG-SC59-3	12.5	Unipolar	no
▼ TLE4968-1K	SP000847992	TLE49681KXTSA1	PG-SC59-3	1.0	Bipolar	no
TLE4976-1K	SP000475038	TLE49761KHTSA1	PG-SC59-3	9.25	Unipolar	no
TLE4976-2K	SP000505028	TLE49762KHTSA1	PG-SC59-3	4.5	Unipolar	no
TLE4976L	SP000012951	TLE4976LHALA1	PG-SSO-3	6.0	Unipolar	no
TLE4966K	SP000392740	TLE4966KHTSA1	PG-TSOP6-6	7.5	Latch	yes
TLE4966-2K	SP000788888	TLE49662KHTSA1	PG-TSOP6-6	7.5	Latch	no
TLE4966-3K	SP000835522	TLE49663KHTSA1	PG-TSOP6-6	2.5	Latch	yes
TLE4966L	SP000014135	TLE4966LHALA1	PG-SSO-4	7.5	Latch	yes

### Hall-Effect Switches Chopped (industrial)

TLI4906K	SP000604306	TLI4906KHTSA1	PG-SC59-3	10.0	Unipolar	no
TLI4906L	SP000604320	TLI4906LHALA1	PG-SSO-3	10.0	Unipolar	no
TLI4946K	SP000604398	TLI4946KHTSA1	PG-SC59-3	14.0	Latch	no
TLI4946-2K	SP000604328	TLV49462KFTSA1	PG-SC59-3	2.0	Latch	no
TLI4946-2L	SP000604336	TLV49462LHALA1	PG-SSO-3	2.0	Latch	no

### Hall-Effect Switches Chopped (consumer)

TLV4906K	SP000604310	TLV4906KFTSA1	PG-SC59-3	10.0	Unipolar	yes
TLV4906L	SP000604324	TLV4906LHALA1	PG-SSO-3	10.0	Unipolar	yes
TLV4946K	SP000604402	TLV4946KFTSA1	PG-SC59-3	14.0	Latch	yes
TLV4946-2K	SP000604332	TLV49462KFTSA1	PG-SC59-3	2.0	Latch	yes
TLV4946-2L	SP000604340	TLV49462LHALA1	PG-SSO-3	2.0	Latch	yes
TLV4976-1K	SP000803730	TLV49761KXTSA1	PG-SC59-3	9.25	Unipolar	yes
TLV4976-2K	SP000803734	TLV49762KXTSA1	PG-SC59-3	4.5	Unipolar	yes

### Low Power Hall Switches

TLE4913	SP000013490	TLE4913HTSA1	PG-SC59-3	3.5	Omnipolar	no
TLE4917	SP000013477	TLE4917HTSA1	PG-TSOP6-6	5.0	Omnipolar	no
TLE4916-1K	SP000649954	TLE49161KHTSA1	PG-SC59-3	3.5	Latch	no

SMD = Surface Mounted Device

Type	Ordering Code	Orderable Part Number	Package	Description		
				Application	Programmable	Interface

**Magnetic Position Sensors****Linear Hall & Current Sensors**

TLE4997E2	SP000235288	TLE4997E2XALA1	PG-SSO-3	Linear Hall	yes	Analog
TLE4998P3	SP000412104	TLE4998P3XALA1	PG-SSO-3	Linear Hall	yes	PWM
TLE4998P4	SP000412106	TLE4998P4HALA1	PG-SSO-4	Linear Hall	yes	PWM
TLE4998P3C	SP000481486	TLE4998P3CHAMA1	PG-SSO-3	Linear Hall	yes	PWM
TLE4998P3C E1200	SP000597466	TLE4998P3CE1200HAMA1	PG-SSO-3	Linear Hall	yes	PWM
TLE4998S3	SP000412108	TLE4998S3XALA1	PG-SSO-3	Linear Hall	yes	SENT
TLE4998S4	SP000412110	TLE4998S4HALA1	PG-SSO-4	Linear Hall	yes	SENT
TLE4998S3C	SP000481484	TLE4998S3CHAMA1	PG-SSO-3	Linear Hall	yes	SENT
TLE4998C3	SP000476468	TLE4998C3XALA1	PG-SSO-3	Linear Hall	yes	SPC
TLE4998C4	SP000440972	TLE4998C4HALA1	PG-SSO-4	Linear Hall	yes	SPC
TLE4998C3C	SP000481482	TLE4998C3CHAMA1	PG-SSO-3	Linear Hall	yes	SPC

**Angle Sensors**

▼ TLE5009 E1000	SP000912764	TLE5009E1000FUMA1	PG-DSO-8	Angle iGMR	no	Analog
▼ TLE5009 E1010	SP000912774	TLE5009E1010FUMA1	PG-DSO-8	Angle iGMR	no	Analog
▼ TLE5009 E2000	SP000912760	TLE5009E2000FUMA1	PG-DSO-8	Angle iGMR	no	Analog
▼ TLE5009 E2010	SP000912770	TLE5009E2010FUMA1	PG-DSO-8	Angle iGMR	no	Analog
TLE5011	SP000857850	TLE5011FUMA1	PG-DSO-8	Angle iGMR	no	SPI
▼ TLE5012B E1000	SP000905682	TLE5012BE1000FUMA1	PG-DSO-8	Angle iGMR	no	SPI, IIF
▼ TLE5012B E3005	SP000905686	TLE5012BE3005FUMA1	PG-DSO-8	Angle iGMR	no	SPI, HSM
▼ TLE5012B E5000	SP000905690	TLE5012BE5000FUMA1	PG-DSO-8	Angle iGMR	no	SPI, PWM
▼ TLE5012B E9000	SP000905694	TLE5012BE9000FUMA1	PG-DSO-8	Angle iGMR	no	SPI, SPC

SMD = Surface Mounted Device

# Sensors

Type	Ordering Code	Orderable Part Number	Package	Description		
				Frequency MHz	Modulation Type	Operating Temperature Range °C

## Wireless Control

### Receiver (single channel)

TDA5200	SP000016381	TDA5200XUMA1	PG-TSSOP-28	434/868	ASK only	-40 ... +85
TDA5201	SP000012902	TDA5201XUMA1	PG-TSSOP-28	315/345	ASK only	-40 ... +85
TDA5210	SP000016384	TDA5210XUMA1	PG-TSSOP-28	434/868	ASK/FSK	-40 ... +105
TDA5211	SP000016390	TDA5211XUMA1	PG-TSSOP-28	315/345	ASK/FSK	-40 ... +105
TDA5212	SP000013430	TDA5212XUMA1	PG-TSSOP-28	915	ASK/FSK	-40 ... +85
TDA5220	SP000014342	TDA5220XUMA1	PG-TSSOP-28	434/868	ASK/FSK	-40 ... +105
TDA7200	SP000296473	TDA7200XUMA1	PG-TSSOP-28	434	ASK/FSK	-20 ... +70
TDA7210	SP000524274	TDA7210XUMA1	PG-TSSOP-28	434/868	ASK/FSK	-40 ... +85
TDA7210V	SP000698080	TDA7210VXUMA1	PG-VQFN-32	434/868	ASK/FSK	-40 ... +85

### SmartLEWIS™ RX+ Receiver (single channel)

TDA5235	SP000507674	TDA5235XUMA1	PG-TSSOP-28	315/434/868/915	ASK/FSK	-40 ... +105
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### Receiver (multi channel)

TDA5221	SP000014343	TDA5221XUMA1	PG-TSSOP-28	315	ASK/FSK	-40 ... +105
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### SmartLEWIS™ RX Receiver (multi channel)

TDA5230	SP000076520	TDA5230XUMA1	PG-TSSOP-28	434/868	ASK/FSK	-40 ... +105
TDA5231	SP000202847	TDA5231XUMA1	PG-TSSOP-28	315	ASK/FSK	-40 ... +105

### SmartLEWIS™ RX+ Receiver (multi channel)

TDA5225	SP000507672	TDA5225XUMA1	PG-TSSOP-28	315/434/868/915	ASK/FSK	-40 ... +105
TDA5240	SP000550860	TDA5240XUMA1	PG-TSSOP-28	315/434/868/915	ASK/FSK	-40 ... +105

SMD = Surface Mounted Device



Type	Ordering Code	Orderable Part Number	Package	Description		
				Frequency MHz	Modulation Type	Transmit Power (at 3 V) dBm

**Wireless Control****Transmitter (single channel)**

TDA5102	SP000013432	TDA5102XUMA1	PG-TSSOP-10	915	ASK/FSK	2.0
TDA5103A	SP000305485	TDA5103AHTMA1	PG-TSSOP-10	345	ASK only	5.0
TDA7100	SP000296466	TDA7100HTMA1	PG-TSSOP-10	434	ASK/FSK	5.0
TDA7110	SP000524278	TDA7110XUMA1	PG-TSSOP-10	434/868	ASK/FSK	10.0
TDA7110F	SP000611108	TDA7110FHTMA1	PG-TSSOP-10	434	ASK/FSK	10.0
TDA7116F	SP000611114	TDA7116FHTMA1	PG-TSSOP-10	868	ASK/FSK	10.0
TDK5100	SP000014557	TDK5100XUMA1	PG-TSSOP-10	434/868	ASK/FSK	5.0/2.0
TDK5100F	SP000014745	TDK5100FHTMA1	PG-TSSOP-10	434	ASK/FSK	5.0
TDK5101	SP000014559	TDK5101XUMA1	PG-TSSOP-10	315	ASK/FSK	5.0
TDK5101F	SP000014744	TDK5101FHTMA1	PG-TSSOP-10	315	ASK/FSK	5.0
TDK5110	SP000013532	TDK5110XUMA1	PG-TSSOP-10	434/868	ASK/FSK	10.0
TDK5110F	SP000056180	TDK5110FHTMA1	PG-TSSOP-10	434	ASK/FSK	10.0
TDK5111	SP000014017	TDK5111XUMA1	PG-TSSOP-10	315	ASK/FSK	10.0
TDK5111F	SP000056181	TDK5111FHTMA1	PG-TSSOP-10	315	ASK/FSK	10.0
TDK5116F	SP000056182	TDK5116FHTMA1	PG-TSSOP-10	868	ASK/FSK	10.0

**SmartLEWIS™ TX Transmitter (multi channel)**

TDA5150	SP000300415	TDA5150HTMA1	PG-TSSOP-10	315/434/868/915	ASK/FSK	5.0/8.0/10.0
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**SmartLEWIS™ MCU - Transmitter & Microcontroller**

PMA5105	SP000463432	PMA5105XUMA1	PG-TSSOP-38	315/434/868/915	ASK/FSK	5.0/8.0/10.0
PMA5110	SP000373573	PMA5110XUMA1	PG-TSSOP-38	315/434/868/915	ASK/FSK	5.0/8.0/10.0
PMA7105	SP000450408	PMA7105XUMA1	PG-TSSOP-38	315/434/868/915	ASK/FSK	5.0/8.0/10.0
PMA7106	SP000450410	PMA7106XUMA1	PG-TSSOP-38	315/434/868/915	ASK/FSK	5.0/8.0/10.0
PMA7107	SP000450412	PMA7107XUMA1	PG-TSSOP-38	315/434/868/915	ASK/FSK	5.0/8.0/10.0
PMA7110	SP000430596	PMA7110XUMA1	PG-TSSOP-38	315/434/868/915	ASK/FSK	5.0/8.0/10.0

**Transceiver (single channel)**

TDA5250	SP000012956	TDA5250XUMA1	PG-TSSOP-38	868	ASK/FSK	9.0
TDA5251	SP000014554	TDA5251XUMA1	PG-TSSOP-38	315	ASK/FSK	9.0
TDA5252	SP000057332	TDA5252XUMA1	PG-TSSOP-38	915	ASK/FSK	9.0
TDA5255	SP000014555	TDA5255XUMA1	PG-TSSOP-38	434	ASK/FSK	9.0
TDA7255V	SP000698114	TDA7255XFUMA1	PG-VQFN-40	434	ASK/FSK	9.0

**SmartLEWIS™ TRX - Multi-Channel Transceiver with Digital Baseband Processing**

▼ TDA5325	SP000803726		PG-TSSOP-28	315/434/868/915/ 959	ASK/FSK/ GSFK	14.0
▼ TDA5340	SP000803722		PG-TSSOP-28	315/434/868/915/ 959	ASK/FSK/ GSFK	14.0

SMD = Surface Mounted Device



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## Chip Card & Security ICs

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Type	Ordering Code	Orderable Part Number	Package	Description
<b>Smart Card Memories</b>				
<b>Data Carrier ICs with Sampe Code</b>				
◆ SLE 5518 M3.2	SP000308576	SLE5518M32ZZZA1	T-M3.2-6-1	Intelligent 1024-byte EEPROM with write protection function, will replace SLE 4418
◆ SLE 5518 MFC3.1	SP000366388	SLE5518MFC31XHSA1	S-MFC3.1-6-1	
◆ SLE 5528 M3.2	SP000268874	SLE5528M32XHSA2	T-M3.2-6-1	Intelligent 1024-byte EEPROM with write protection function and Programmable Security Code (PSC), will replace SLE 4428
◆ SLE 5528 MFC3.1	SP000269210	SLE5528MFC31XHSA2	S-MFC3.1-6-1	
◆ SLE 5532 M3.2	SP000232944	SLE5532M32FHSA1	T-M3.2-6-1	Intelligent 256-byte EEPROM with write protection function, will replace SLE 4432
◆ SLE 5532 MFC3.1	SP000237782	SLE5532MFC31XHSA1	S-MFC3.1-6-1	
◆ SLE 5538 M3.2	SP000308579	SLE5538M32ZZZA1	T-M3.2-6-1	Intelligent 1024-byte EEPROM with write and read-out protection function and Programmable Security Code (PSC)
◆ SLE 5538 MFC3.1	SP000308580	SLE5538MFC31ZZZA1	S-MFC3.1-6-1	
◆ SLE 5542 M3.2	SP000232943	SLE5542M32XHSA2	T-M3.2-6-1	Intelligent 256-byte EEPROM with write protection function and Programmable Security Code (PSC), will replace SLE 4442
◆ SLE 5542 MFC3.1	SP000232942	SLE5542MFC31XHSA6	S-MFC3.1-6-1	
◆ SLE 5552 M3.2	SP000232946	SLE5552M32XHSA1	T-M3.2-6-1	Intelligent 256-byte EEPROM with write and read-out protection function and Programmable Security Code (PSC)

SMD = Surface Mounted Device

# Chip Card & Security ICs

Type	Ordering Code	Orderable Part Number	Package	Description
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## Contactless Products

### Contactless Memories my-d™ vicinity

◆ SRF 55V02P NB	SP000405806	SRF55V02PNBX1SA7	wafer sawn	Intelligent 2.5-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and ISO/IEC18000-3 mode 1
◆ SRF 55V02P MCC2	SP000430934	SRF55V02PMCC2XHSA1	P-MCC2-2-1	
◆ SRF 55V02P MCC8	SP000520644	SRF55V02PMCC8XHSA1	P-MCC8-2-1	
◆ SRF 55V02P HC NB	SP000292806	SRF55V02PHCNBZZZA1	wafer	Intelligent 2.5-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and ISO/IEC18000-3 mode 1, high input capacitance
◆ SRF 55V02P HC NB	SP000245649	SRF55V02PHCNBX1SA1	wafer sawn	
◆▼ SRF 55V02P HC MCC2	SP000630956	SRF55V02PHCMCC2ZZZA1	P-MCC2-2-1	
◆▼ SRF 55V02S NB	SP000622602	SRF55V02SNBX1SA3	wafer sawn	Intelligent 2.5-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and ISO/IEC18000-3 mode 1 and security logic, security algorithm, 64-bit key length, selective memory access control, 32-bit MAC, transport key
◆▼ SRF 55V02S MCC8	SP000712968	SRF55V02SMCC8ZZZA1	P-MCC8-2-1	
◆▼ SRF 55V02S HC NB	SP000657790	SRF55V02SHCNBX1SA1	wafer sawn	Intelligent 2.5-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and ISO/IEC18000-3 mode 1 and security logic, security algorithm, 64-bit key length, selective memory access control, 32-bit MAC, transport key, high input capacitance
◆ SRF 55V10P NB	SP000606192	SRF55V10PNBX1SA2	wafer sawn	Intelligent 10-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and ISO/IEC18000-3 mode 1
◆ SRF 55V10P MCC2	SP000430930	SRF55V10PMCC2XHSA2	P-MCC2-2-1	
◆ SRF 55V10P MCC8	SP000520654	SRF55V10PMCC8XHSA1	P-MCC8-2-1	
◆ SRF 55V10P HC NB	SP000460854	SRF55V10PHCNBZZZA1	wafer	Intelligent 10-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and ISO/IEC18000-3 mode 1, high input capacitance
◆ SRF 55V10P HC NB	SP000315963	SRF55V10PHCNBX1SA1	wafer sawn	
◆ SRF 55V10S NB	SP000614132	SRF55V10SNBX1SA1	wafer sawn	Intelligent 10-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and security logic, security algorithm, 64-bit key length, selective memory access control, 32-bit MAC, transport key
◆▼ SRF 55V10S MCC2	SP000860226	SRF55V10SMCC2XHSA1	P-MCC2-2-1	
◆▼ SRF 55V10S MCC8	SP000722238	SRF55V10SMCC8ZZZA1	P-MCC8-2-1	
◆ SRF 55V10S HC NB	SP000614128	SRF55V10SHCNBX1SA1	wafer sawn	Intelligent 10-Kbit EEPROM with contactless interface complying to ISO/IEC 15693 and security logic, security algorithm, 64-bit key length, selective memory access control, 32-bit MAC, transport key, high input capacitance

### Contactless Memories Phase Jitter Modulation (PJM)

◆ SRF 66V10IT NB	SP000211674	SRF66V10ITNBX1SA1	wafer sawn	Intelligent 10-Kbit EEPROM with contactless interface complying to ISO/IEC 18000-3 mode 2, PJM item tag
◆ SRF 66V10ST NB	SP000206820	SRF66V10STNBX1SA1	wafer sawn	Intelligent 10-Kbit EEPROM with contactless interface enhancement of ISO/IEC 18000-3 mode 2, stack tag

### Contactless Memories my-d™ move

◆ SLE 66R01P NB	SP000650632	SLE66R01PNBX1SA1	wafer sawn	Intelligent 1.216-bit EEPROM with contactless interface complying to ISO/IEC 14443 type A and support of NFC Forum™ type 2 tag operation uninitialized state
◆▼ SLE 66R01PN NB	SP000953914	SLE66R01PNNBX1SA2	wafer sawn	Intelligent 1.216-bit EEPROM with contactless interface complying to ISO/IEC 14443 type A and support of NFC Forum™ type 2 tag operation initialized state, non-reversible

SMD = Surface Mounted Device

Type	Ordering Code		Package	Description
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**Contactless Products****Contactless Memories my-d™ NFC**

◆ SLE 66R04P NB	SP000410318	SLE66R04PNBZZZA1	wafer	Intelligent 616-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A and support of NFC Forum™ type 2 tag operation, (no NFC memory)
◆ SLE 66R04P MCC2	SP000410322	SLE66R04PMCC2ZZZA1	P-MCC2-2-1	
◆ SLE 66R16P NB	SP000410326	SLE66R16PNBZZZA1	wafer	Intelligent 2048-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A and support of NFC Forum™ type 2 tag operation, (up to 1024 bytes NFC memory)
◆ SLE 66R16P MCC2	SP000410330	SLE66R16PMCC2ZZZA1	P-MCC2-2-1	
◆ SLE 66R16P MCC8	SP000493784	SLE66R16PMCC8ZZZA1	P-MCC8-2-3	
◆ SLE 66R32P NB	SP000410340	SLE66R32PMCC2ZZZA1	wafer	Intelligent 4096-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A and support of NFC Forum™ type 2 tag operation, (up to 2048 bytes NFC memory)
◆ SLE 66R32P MCC2	SP000410336	SLE66R32PNBZZZA1	P-MCC2-2-1	
◆▼ SLE 66R32P MCC8	SP000953284	SLE66R32PMCC81XHSA1	P-MCC8-2-3	

**Contactless Memories my-d™ proximity 2**

◆ SLE 66R04S NB	SP000410344	SLE66R04SNBZZZA1	wafer	Intelligent 512-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A
◆ SLE 66R04S MCC2	SP000410348	SLE66R04SMCC2ZZZA1	P-MCC2-2-1	
◆ SLE 66R04S MCC8	SP000714800	SLE66R04SMCC8ZZZA1	P-MCC2-8-1	
◆ SLE 66R16S NB	SP000410352	SLE66R16SNBZZZA1	wafer	Intelligent 2048-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A
◆ SLE 66R16S MCC2	SP000410360	SLE66R16SMCC2XHSA1	P-MCC2-2-1	
◆ SLE 66R16S MCC8	SP000671906	SLE66R16SMCC8XHSA1	P-MCC2-8-1	
◆ SLE 66R32S NB	SP000410364	SLE66R32SNBZZZA1	wafer	Intelligent 4096-byte EEPROM with contactless interface complying to ISO/IEC 14443 type A
◆ SLE 66R32S MCC2	SP000410368	SLE66R32SMCC2ZZZA1	P-MCC2-2-1	
◆ SLE 66R32S MCC8	SP000714848	SLE66R32SMCC8ZZZA1	P-MCC2-8-1	

**Components for Contactless Terminals**

◆ SLF 9620 M5.1	SP000621032	SLF9620M51ZZZA1	T-M5.1-8-1	Security access module with ISO/IEC 7816 interface supporting MIFARE™ compatible my-d™ algorithm, 3DES and AES128
◆ SLF 9620 NB	SP000630494	SLF9620NBZZZA1	wafer sawn	

◆ For complete Chip Card ICs product portfolio please visit: [www.infineon.com/security](http://www.infineon.com/security)

SMD = Surface Mounted Device









# Summary of Types

Type	Ordering Code	Orderable Part Number	Page	Type	Ordering Code	Orderable Part Number	Page	
<b>Numerics</b>				BAR90-098LRH	15k	SP000053484	BAR90098LRHE6327XTSA1	151
1ED020112-B2	SP000898878	1ED020112B2XUMA1	122	BAS116	10k	SP000010196	BAS116E6433HTMA1	175
1ED020112-BT	SP000920032		122	BAS116	3k	SP000010194	BAS116E6327HTSA1	175
1ED020112-F	SP000391828	1ED020112FXUMA1	122	BAS125-04W (Dual)	3k	SP000749598	BAS12504WH6327XTSA1	163
1ED020112-F2	SP000920028	1ED020112F2XUMA1	122	BAS125-05W (Dual)	3k	SP000749600	BAS12505WH6327XTSA1	163
1ED020112-FT	SP000920030	1ED020112FTXUMA1	122	BAS125-07W (Dual)	3k	SP000749602	BAS12507WH6327XTSA1	163
1ED020112FA	SP000436718	1ED020112FAXUMA1	122	BAS140W	3k	SP000010199	BAS140WE6327HTSA1	163
1ED020112FA2	SP000898880	1ED020112FA2XUMA1	122	BAS16-02L	15k	SP000013548	BAS1602LE6327XTMA1	174
1ED020112FTA	SP000439658	1ED020112FTAXUMA1	122	BAS16-02V	3k	SP000752008	BAS1602VH6327XTSA1	174
2ED020106-FA	SP000850124	2ED020112FAXUMA1	122	BAS16-02W	3k	SP000752010	BAS21UE6327HTSA1	174
2ED020106-FI	SP000776988	2ED020106FIXUMA1	122	BAS16-03W	3k	SP000010213	BAS1603WE6327HTSA1	174
2ED020112-F2	SP000920036		122	BAS16	10k	SP000010201	BAS16E6433HTMA1	174
2ED020112-FI	SP000265782	2ED020112FIXUMA1	122	BAS16	3k	SP000010203	BAS16E6327HTSA1	174
2N7002	SP000929182	2N7002H6327XTSA2	80	BAS16S (Triple)	3k	SP000753162	BAS16SH6327XTSA1	174
2N7002DW	SP000408436	2N7002DWL6327HTSA1	80	BAS16S (Triple)	3k	SP000753164	BAS16SH6727XTSA1	174
2N7002DW	SP000917596	2N7002DWH6327XTSA1	80	BAS16U (Triple)	3k	SP000012608	BAS16UE6327HTSA1	174
6ED003L02-F	SP000654950	6ED003L02FXUMA1	122	BAS16W	10k	SP000753168	BAS16WH6433XTMA1	174
6ED003L02-F2	SP000919390	6ED003L02F2XUMA1	122	BAS16W	3k	SP000753166	BAS16WH6327XTSA1	174
6ED003L06-F	SP000246764	6ED003L06FXUMA1	122	BAS170W	3k	SP000010216	BAS170WE6327HTSA1	163
6ED003L06-F2	SP000929928	6ED003L06F2XUMA1	122	BAS21-03W	10k	SP000082470	BAS2103WE6433HTMA1	174
6EDL04I06NT	SP000926082	6EDL04I06NTXUMA1	122	BAS21-03W	3k	SP000012522	BAS2103WE6327HTSA1	174
6EDL04I06PT	SP000926088	6EDL04I06PTXUMA1	122	BAS21	10k	SP000010219	BAS21E6433HTMA1	174
6EDL04N02PR	SP000926072	6EDL04N02PRXUMA1	122	BAS21	3k	SP000010217	BAS21E6327HTSA1	174
6EDL04N06PT	SP000926102	6EDL04N06PTXUMA1	122	BAS21U (Triple)	10k	SP000471142	BAS21UE6433HTMA1	174
				BAS21U (Triple)	3k	SP000012610	BAS21UE6327HTSA1	174
				BAS28 (Dual)	10k	SP000010228	BAS28E6433HTMA1	174
				BAS28 (Dual)	3k	SP000010225	BAS28E6327HTSA1	174
				BAS28W (Dual)	3k	SP000753170	BAS28WH6327XTSA1	174
				BAS3005A-02V	3k	SP000749684	BAS3005A02VH6327XTSA1	163
				BAS3005B-02V	3k	SP000749682	BAS3005B02VH6327XTSA1	163
				BAS3005S-02LRH	15k	SP000472478	BAS3005S02LRHE6327XTMA1	163
				BAS3007A-RPP	3k	SP000356003	BAS3007ARPP6327HTSA1	175
				BAS3010A-03W	3k	SP000086629	BAS3010A03WH6327HTSA1	163
				BAS3010B-03W	3k	SP000086630	BAS3010B03WH6327HTSA1	163
				BAS3010S-02LRH	15k	SP000472480	BAS3010S02LRHE6327XTMA1	163
				BAS3020B	3k	SP000749686	BAS3020BH6327XTSA1	163
				BAS40-02L	15k	SP000013549	BAS4002LE6327XTMA1	163
				BAS40-04 (Dual)	10k	SP000010243	BAS4004E6433HTMA1	163
				BAS40-04 (Dual)	3k	SP000010241	BAS4004E6327HTSA1	163
				BAS40-05 (Dual)	10k	SP000010242	BAS4005E6433HTMA1	163
				BAS40-05 (Dual)	3k	SP000010240	BAS4005E6327HTSA1	163
				BAS40-05W (Dual)	3k	SP000749762	BAS4005WH6327HTSA1	163
				BAS40-06 (Dual)	10k	SP000010244	BAS4006E6433HTMA1	163
				BAS40-06 (Dual)	3k	SP000010239	BAS4006E6327HTSA1	163
				BAS40-06W (Dual)	3k	SP000749764	BAS4006WH6327XTSA1	163
				BAS40-07 (Dual)	3k	SP000010245	BAS4007E6327HTSA1	163
				BAS40-07W (Dual)	3k	SP000749806	BAS4007WH6327XTSA1	163
				BAS40	10k	SP000010233	BAS40E6433HTMA1	163
				BAS40	3k	SP000010235	BAS40E6327HTSA1	163
				BAS4002A-RPP	3k	SP000443736	BAS4002ARPP6327HTSA1	175
				BAS4002S-02LRH	15k	SP000472476	BAS4002S02LRHE6327XTMA1	163
				BAS52-02V	10k	SP000749810	BAS5202VH6433XTMA1	163
				BAS52-02V	3k	SP000749808	BAS5202VH6327XTSA1	163
				BAS70-02L	15k	SP000013550	BAS7002LE6327XTMA1	164
				BAS70-02W (Dual)	3k	SP000749812	BAS7002WH6327XTSA1	164
				BAS70-04 (Dual)	10k	SP000010256	BAS7004E6433HTMA1	164
				BAS70-04 (Dual)	3k	SP000010253	BAS7004E6327HTSA1	164
				BAS70-04S (Quad)	3k	SP000749814	BAS7004SH6327XTSA1	164
				BAS70-04S (Quad)	3k	SP000749818	BAS7004SH6827XTSA1	164
				BAS70-04W (Dual)	3k	SP000749820	BAS7004WH6327XTSA1	164
				BAS70-05 (Dual)	10k	SP000078827	BAS7005E6433HTMA1	164
				BAS70-05 (Dual)	3k	SP000010252	BAS7005E6327HTSA1	164
				BAS70-05W (Dual)	3k	SP000749822	BAS7005WH6327XTSA1	164
				BAS70-06 (Dual)	10k	SP000010260	BAS7006E6433HTMA1	164
				BAS70-06 (Dual)	3k	SP000010254	BAS7006E6327HTSA1	164
				BAS70-06W (Dual)	3k	SP000749824	BAS7006WH6327XTSA1	164
				BAS70-07 (Dual)	10k	SP000010269	BAS7007E6433HTMA1	164
				BAS70-07 (Dual)	3k	SP000010266	BAS7007E6327HTSA1	164
				BAS70-07W (Dual)	3k	SP000749826	BAS7007WH6327XTSA1	164
				BAS70	10k	SP000010248	BAS70E6433HTMA1	164
				BAS70	3k	SP000010247	BAS70E6327HTSA1	164
				BAT15-02LRH	15k	SP000055124	BAT1502LRHE6327XTSA1	157
				BAT15-02LS	70k	SP000703680	BAT1502LSE6433XTMA1	157
				BAT15-03W	3k	SP000010272	BAT1503WE6327HTSA1	157
				BAT15-04R	3k	SP000960186	BAT1504RE6152HTSA1	157
				BAT15-04W (Dual)	3k	SP000659920	BAT1504WE6327HTSA1	157
				BAT15-05W (Dual)	3k	SP000743458	BAT1505WH6327XTSA1	157
				BAT15-099 (Dual)	10k	SP000010275	BAT15099RE6327HTSA1	157
				BAT15-099 (Dual)	3k	SP000010273	BAT15099E6327HTSA1	157
				BAT15-099R (Dual)	3k	SP000010276	BAT15099RE6327HTSA1	157
				BAT165	3k	SP000010277	BAT165E6327HTSA1	163
				BAT17-04 (Dual)	3k	SP000010283	BAT1704E6327HTSA1	157



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BAT17-04W (Dual)	3k	SP000743462	BAT1704WH6327XTSA1	157	BB639 matched	3k	SP000010401	BB639E7904HTSA1	154
BAT17-05 (Dual)	3k	SP000010285	BAT1705WH6327XTSA1	157	BB639C matched	3k	SP000010396	BB639CE7904HTSA1	154
BAT17-05W (Dual)	3k	SP000743464	BAT1705WH6327XTSA1	157	BB639C unmatched	3k	SP000010398	BB639CE7908HTSA1	154
BAT17-06W (Dual)	3k	SP000743466	BAT1706WH6327XTSA1	157	BB640 matched	3k	SP000010406	BB640E6327HTSA1	154
BAT17-07 (Dual)	3k	SP000010289	BAT1707E6327HTSA1	157	BB644 matched	3k	SP000010411	BB644E7904HTSA1	154
BAT17	3k	SP000010280	BAT17E6327HTSA1	157	BB659 matched	3k	SP000745102	BB659H7902XTSA1	154
BAT18-04 (Dual)	3k	SP000010290	BAT1804E6327HTSA1	152	BB659C matched	10k	SP000734342	BB659CH7903XTMA1	154
BAT18-05 (Dual)	3k	SP000010291	BAT1805E6327HTSA1	152	BB659C matched	3k	SP000734324	BB659CH7902XTSA1	154
BAT24-02LS	15k	SP0000304927	BAT2402LSE6327XTSA1	157	BB659C matched	8k	SP000745104	BB659CH7912XTSA1	154
BAT240A (Dual)	10k	SP000426394	BAT240AE6433HTMA1	164	BB659C-02V matched	3k	SP000745108	BB659C02VH7902XTSA1	154
BAT240A (Dual)	3k	SP000010292	BAT240AE6327HTSA1	164	BB659C-02V matched	8k	SP000745112	BB659C02VH7912XTSA1	154
BAT54-02LRH	15k	SP000234099	BAT5402LRHE6327XTSA1	164	BB659C-02V unmatched	3k	SP000745110	BB659C02VH7908XTSA1	154
BAT54-02V	3k	SP000749828	BAT5402VH6327XTSA1	164	BB664 matched	3k	SP000745114	BB664H7902XTSA1	154
BAT54-03W	3k	SP000426668	BAT5403WE6327HTSA1	164	BB664-02V matched	3k	SP000745118	BB66402VH7902XTSA1	154
BAT54-04 (Dual)	3k	SP0000688500	BAT5404E6327HTSA1	164	BB669 matched	3k	SP000010419	BB669E7904HTSA1	154
BAT54-04W (Dual)	3k	SP000749830	BAT5404WH6327XTSA1	164	BB689 matched	10k	SP000745120	BB689H7903XTMA1	154
BAT54-05 (Dual)	3k	SP0000688509	BAT5405E6327HTSA1	164	BB689 matched	3k	SP000734326	BB689H7902XTSA1	154
BAT54-05W (Dual)	3k	SP000749832	BAT5405WH6327XTSA1	164	BB689 matched	8k	SP000842828	BB689H7912XTSA1	154
BAT54-06 (Dual)	3k	SP0000688510	BAT5406E6327HTSA1	164	BB689 unmatched	3k	SP000745122	BB689H7908XTSA1	154
BAT54-06W (Dual)	3k	SP000749834	BAT5406WH6327XTSA1	164	BB689-02V matched	3k	SP000745124	BB68902VH7902XTSA1	154
BAT54	3k	SP000068499	BAT54E6327HTSA1	164	BB689-02V unmatched	3k	SP000745126	BB68902VH7908XTSA1	154
BAT54W (Dual)	3k	SP000786162	BAT54WH6327XTSA1	164	BB804SF1 (Dual)	3k	SP000010425	BB804SF1E6327HTSA1	153
BAT60A	3k	SP000010294	BAT60AE6327HTSA1	163	BB804SF2 (Dual)	3k	SP000010426	BB804SF2E6327HTSA1	153
BAT60B	3k	SP000010296	BAT60BE6327HTSA1	163	BB814GR1 (Dual)	3k	SP000010433	BB814E6327GR1HTSA1	153
BAT62-02L	15k	SP000016963	BAT6202LE6327XTMA1	157	BB814GR2 (Dual)	3k	SP000010435	BB814E6327GR2HTSA1	153
BAT62-02LS	15k	SP000273996	BAT6202LSE6327XTSA1	157	BB831	3k	SP000012250	BB831E7904HTSA1	153
BAT62-02W	3k	SP000743522	BAT6202WH6327XTSA1	157	BB833	3k	SP000010437	BB833E6327HTSA1	153
BAT62-03W	3k	SP000010303	BAT6203WE6327HTSA1	157	BB837	3k	SP000010441	BB837E6327HTSA1	153
BAT62-07L4 (Dual)	3k	SP000077202	BAT6207L4E6433XTMA1	157	BB844 (Dual)	3k	SP000013388	BB844E6327HTSA1	153
BAT62-07W (Dual)	3k	SP000010304	BAT6207WE6327HTSA1	157	BB857 matched	3k	SP000745128	BB857H7902XTSA1	153
BAT62-07W (Dual)	3k	SP000743524	BAT6207WH6327XTSA1	157	BB914 (Dual)	3k	SP000010445	BB914E6327HTSA1	153
BAT62	3k	SP000010300	BAT62E6327HTSA1	157	BBY51-02W	3k	SP000743540	BBY5102WH6327XTSA1	155
BAT63-02V	3k	SP000743526	BAT6302VH6327XTSA1	157	BBY51-03W	3k	SP000010453	BBY5103VE6327HTSA1	155
BAT63-07W	3k	SP000743534	BAT6307WH6327XTSA1	157	BBY52-02L	15k	SP000014591	BBY5202LE6327XTMA1	155
BAT64-02W	3k	SP000749836	BAT6402WH6327XTSA1	164	BBY52-02L	15k	SP000621074	BBY5202LE6816XTMA1	155
BAT64-04 (Dual)	10k	SP000010314	BAT6404E6433HTMA1	164	BBY52-02W	3k	SP000743548	BBY5202WH6327XTSA1	155
BAT64-04 (Dual)	3k	SP000010309	BAT6404E6327HTSA1	164	BBY53-02L	15k	SP000014592	BBY5302LE6327XTMA1	155
BAT64-04W (Dual)	3k	SP000749838	BAT6404WH6327XTSA1	164	BBY53-02V	3k	SP000743550	BBY5102WH6327XTSA1	155
BAT64-05 (Dual)	3k	SP000010310	BAT6405E6327HTSA1	164	BBY53-02W	3k	SP000743552	BBY5302WH6327XTSA1	155
BAT64-05W (Dual)	3k	SP000749840	BAT6405WH6327XTSA1	164	BBY53-03W	3k	SP000010461	BBY5303VE6327HTSA1	155
BAT64-06 (Dual)	3k	SP000010311	BAT6406E6327HTSA1	164	BBY53-05W (Dual)	3k	SP000743554	BBY5305WH6327XTSA1	155
BAT64-06W (Dual)	3k	SP000749842	BAT6406WH6327XTSA1	164	BBY55-02V	3k	SP000743556	BBY5502VH6327XTSA1	155
BAT64	3k	SP000010307	BAT64E6327HTSA1	164	BBY55-02W	3k	SP000743558	BBY5502WH6327XTSA1	155
BAT68-04 (Dual)	3k	SP000010320	BAT6804E6327HTSA1	164	BBY55-03W	3k	SP000012238	BBY5503WE6327HTSA1	155
BAT68-04W (Dual)	3k	SP000743536	BAT6804WH6327XTSA1	157	BBY56-02W	3k	SP000734340	BBY5602WH6327XTSA1	155
BAT68-06 (Dual)	3k	SP000010322	BAT6806E6327HTSA1	157	BBY56-03W	3k	SP000012239	BBY5603WE6327HTSA1	155
BAT68-06W (Dual)	3k	SP000743538	BAT6806WH6327XTSA1	157	BBY57-02V	3k	SP000743560	BBY5702VH6327XTSA1	155
BAT68	3k	SP000012514	BAT68E6327HTSA1	157	BBY57-02W	3k	SP000743562	BBY5702WH6327XTSA1	155
BAV170 (Dual)	10k	SP000010332	BAV170E6433HTMA1	175	BBY57-05W (Dual)	3k	SP000743564	BBY5705WH6327XTSA1	155
BAV170 (Dual)	3k	SP000010325	BAV170E6327HTSA1	175	BBY58-02V	3k	SP000743566	BBY5802VH6327XTSA1	155
BAV199 (Dual)	10k	SP000010330	BAV199E6433HTMA1	175	BBY58-02W	3k	SP000743570	BBY5802WH6327XTSA1	155
BAV199 (Dual)	3k	SP000010326	BAV199E6327HTSA1	175	BBY58-03W	3k	SP000012240	BBY5803WE6327HTSA1	155
BAV70 (Dual)	10k	SP000014924	BAV70E6433HTMA1	174	BBY58-05W (Dual)	3k	SP000743572	BBY5805WH6327XTSA1	155
BAV70 (Dual)	3k	SP000014923	BAV70E6327HTSA1	174	BBY58-06W (Dual)	3k	SP000743574	BBY5806WH6327XTSA1	155
BAV70S (Quad)	3k	SP000753172	BAV70SH6327XTSA1	174	BBY65-02V	3k	SP000743576	BBY6502VH6327XTSA1	155
BAV70S (Quad)	3k	SP000753176	BAV70SH6727XTSA1	174	BBY66-02V	3k	SP000743580	BBY6602VH6327XTSA1	155
BAV70S (Quad)	3k	SP000753178	BAV70SH6827XTSA1	174	BBY66-05W	3k	SP000743582	BBY6605WH6327XTSA1	155
BAV70U (Quad)	3k	SP000012931	BAV70UE6327HTSA1	174	BC807U	3k	SP000012395	BC807UE6327HTSA1	170
BAV70W (Dual)	3k	SP000754042	BAV70WH6327XTSA1	174	BC817K-16	10k	SP000271829	BC817K16E6433HTMA1	170
BAV99S (Quad)	10k	SP000754048	BAV99SH6433XTMA1	174	BC817K-16	3k	SP000271838	BC817K16E6327HTSA1	170
BAV99S (Quad)	3k	SP000754046	BAV99SH6327XTSA1	174	BC817K-16W	3k	SP000786164	BC817K16WH6327XTSA1	170
BAV99U (Quad)	3k	SP000012613	BAV99UE6327HTSA1	174	BC817K-25	10k	SP000271879	BC817K25E6433HTMA1	170
BAW101 (Dual)	10k	SP000010364	BAW101E6433HTMA1	174	BC817K-25	3k	SP000271875	BC817K25E6327HTSA1	170
BAW101 (Dual)	3k	SP000010363	BAW101E6327HTSA1	174	BC817K-25W	10k	SP000786166	BC817K25WH6433XTMA1	170
BAW156 (Dual)	3k	SP000010327	BAW156E6327HTSA1	175	BC817K-25W	3k	SP000746848	BC817K25WH6327XTSA1	170
BAW56S (Quad)	3k	SP000754060	BAW56SH6327XTSA1	174	BC817K-40	10k	SP000271898	BC817K40E6433HTMA1	170
BAW56S (Quad)	3k	SP000754064	BAW56SH6727XTSA1	174	BC817K-40	3k	SP000271895	BC817K40E6327HTSA1	170
BAW56U (Quad)	10k	SP000492394	BAW56UE6433HTMA1	174	BC817K-40W	3k	SP000746850	BC817K40WH6327XTSA1	170
BAW56U (Quad)	3k	SP000014993	BAW56UE6327HTSA1	174	BC817SU	3k	SP000296413	BC817SUE6327HTSA1	170
BAW78 D	1k	SP000010370	BAW78DE6327HTSA1	175	BC817U	3k	SP000012394	BC817SUE6327HTSA1	170
BAW79 D (Dual)	1k	SP000014594	BAW79DE6327HTSA1	175	BC817UPN	3k	SP000012398	BC817UPNE6327HTSA1	170
BB439 matched	3k	SP000010372	BB439E6327HTSA1	153	BC818K-16W	3k	SP000746852	BC818K16WH6327XTSA1	170
BB535 matched	3k	SP000010375	BB535E7904HTSA1	153	BC818K-40	3k	SP000271908	BC818K40E6327HTSA1	170
BB535 unmatched	3k	SP000010374	BB535E7907HTMA1	153	BC846PN	3k	SP000746856	BC846PNH6327XTSA1	169
BB545 matched	3k	SP000010383	BB545E7904HTSA1	153	BC846S	10k	SP000746926	BC846SH6433XTMA1	169
BB555 matched	3k	SP000733802	BB555H7902XTSA1	153	BC846S	3k	SP000746922	BC846SH6327XTSA1	169
BB555 matched	8k	SP000745068	BB555H7912XTSA1	153	BC846S	3k	SP000746928	BC846SH6727XTSA1	169
BB555-02V matched	3k	SP000745088	BB55502VH7902XTSA1	153	BC846U	3k	SP000012619	BC846UE6327HTSA1	169
BB555-02V matched	8k	SP000745092	BB55502VH7912XTSA1	153	BC846UPN	3k	SP000012621	BC846UPNE6327HTSA1	169
BB565 matched	10k	SP000734346	BB565H7903XTMA1	153	BC847A	3k	SP000010571	BC847AE6327HTSA1	168
BB565 matched	3k	SP000745094	BB565H7902XTSA1	153	BC847B	10k	SP000010576	BC847BE6433HTMA1	168
BB565 matched	8k	SP000842826	BB565H7912XTSA1	153	BC847B	3k	SP000010559	BC847BE6327HTSA1	168
BB565 unmatched	3k	SP000745096	BB565H7908XTSA1	153	BC847BL3	15k	SP000013553	BC847BL3E6327XTMA1	168
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BC847C	10k	SP000010590	BC847CE6433HTMA1	168	BCR108W	3k	SP000750780	BCR108WH6327XTSA1	165
BC847C	3k	SP000010565	BC847CE6327HTSA1	168	BCR10PN	10k	SP000750788	BCR10PNH6730XTMA1	166
BC847CW	10k	SP000747284	BC847CWH6433XTMA1	168	BCR10PN	3k	SP000750782	BCR10PNH6327XTSA1	166
BC847CW	3k	SP000746934	BC847CWH6327XTSA1	168	BCR10PN	3k	SP000750786	BCR10PNH6727XTSA1	166
BC847CW	3k	SP000747286	BC847CWH6778XTSA1	168	BCR112	3k	SP000010747	BCR112E6327HTSA1	165
BC847PN	10k	SP000747292	BC847PNH6433XTMA1	169	BCR112W	3k	SP000750790	BCR112WH6327XTSA1	165
BC847PN	3k	SP000747288	BC847PNH6327XTSA1	169	BCR116	10k	SP000010751	BCR116E6433HTMA1	165
BC847PN	3k	SP000747296	BC847PNH6727XTSA1	169	BCR116	3k	SP000010749	BCR116E6327HTSA1	165
BC847S	10k	SP000747404	BC847SH6433XTMA1	169	BCR116S	3k	SP000752050	BCR116SH6327XTSA1	166
BC847S	3k	SP000747288	BC847SH6327XTSA1	169	BCR116W	3k	SP000754072	BCR116WH6327XTSA1	165
BC847S	3k	SP000747406	BC847SH6727XTSA1	169	BCR119	3k	SP000010752	BCR119E6327HTSA1	165
BC847S	3k	SP000857072	BC847SH6794XTSA1	169	BCR119S	10k	SP000755042	BCR119SH6433XTMA1	166
BC847S	3k	SP000747408	BC847SH6827XTSA1	169	BCR119S	3k	SP000754074	BCR119SH6327XTSA1	165
BC848A	3k	SP000010568	BC848AE6327HTSA1	168	BCR119W	3k	SP000755044	BCR119WH6327XTSA1	165
BC848B	10k	SP000010581	BC848BE6433HTMA1	168	BCR129	3k	SP000012520	BCR129E6327HTSA1	165
BC848B	3k	SP000010561	BC848BE6327HTSA1	168	BCR129S	3k	SP000755046	BCR129SH6327XTSA1	166
BC848BL3	15k	SP000013554	BC848BL3E6327XTMA1	168	BCR129W	3k	SP000755048	BCR129WH6327XTSA1	165
BC848BW	3k	SP000747410	BC848BWH6327XTSA1	168	BCR133	10k	SP000010759	BCR133E6433HTMA1	165
BC848C	10k	SP000010582	BC848CE6433HTMA1	168	BCR133	3k	SP000010757	BCR133E6327HTSA1	165
BC848C	3k	SP000010562	BC848CE6327HTSA1	168	BCR133S	10k	SP000755082	BCR133SH6433XTMA1	166
BC848CW	3k	SP000747412	BC848CWH6327XTSA1	168	BCR133S	3k	SP000755050	BCR133SH6327XTSA1	166
BC849B	3k	SP000010567	BC849BE6327HTSA1	168	BCR133W	3k	SP000756246	BCR133WH6327XTSA1	165
BC849C	3k	SP000010564	BC849CE6327HTSA1	168	BCR135	10k	SP000010767	BCR135E6433HTMA1	165
BC849CW	3k	SP000747414	BC849CWH6327XTSA1	168	BCR135	3k	SP000010765	BCR135E6327HTSA1	165
BC850B	3k	SP000010572	BC850BE6327HTSA1	168	BCR135S	3k	SP000756248	BCR135SH6327XTSA1	166
BC850BW	3k	SP000747416	BC850BWH6327XTSA1	168	BCR135W	3k	SP000756252	BCR135WH6327XTSA1	165
BC850C	3k	SP000010563	BC850CE6327HTSA1	168	BCR141	10k	SP000010771	BCR141E6433HTMA1	165
BC850CW	3k	SP000747418	BC850CWH6327XTSA1	168	BCR141	3k	SP000010769	BCR141E6327HTSA1	165
BC856S	3k	SP000747446	BC856SH6327XTSA1	169	BCR141S	3k	SP000756256	BCR141SH6327XTSA1	166
BC856U	3k	SP000012620	BC856UE6327HTSA1	169	BCR141W	3k	SP000756258	BCR141WH6327XTSA1	165
BC857A	3k	SP000010639	BC857AE6327HTSA1	168	BCR142	10x3k	SP000010774	BCR142B6327HTSA1	165
BC857B	10k	SP000010648	BC857BE6433HTMA1	168	BCR142	3k	SP000010775	BCR142E6327HTSA1	165
BC857B	3k	SP000010633	BC857BE6327HTSA1	168	BCR142W	3k	SP000756260	BCR142WH6327XTSA1	165
BC857BL3	3k	SP000013556	BC857BL3E6327XTMA1	168	BCR146	3k	SP000010777	BCR146E6327HTSA1	165
BC857BW	3k	SP000747448	BC857BWH6327XTSA1	168	BCR148	10k	SP000426390	BCR148E6433HTMA1	165
BC857BW	3k	SP000747450	BC857BWH6778XTSA1	168	BCR148	3k	SP000010780	BCR148E6327HTSA1	165
BC857C	10k	SP000010660	BC857CE6433HTMA1	168	BCR148S	10k	SP000756264	BCR148SH6433XTMA1	166
BC857C	3k	SP000010640	BC857CE6327HTSA1	168	BCR148S	3k	SP000756262	BCR148SH6327XTSA1	166
BC857CW	10k	SP000747454	BC857CWH6433XTMA1	168	BCR148W	3k	SP000756268	BCR148WH6327XTSA1	165
BC857CW	3k	SP000747452	BC857CWH6327XTSA1	168	BCR158	3k	SP000010784	BCR158E6327HTSA1	165
BC857S	10k	SP000747576	BC857SH6433XTMA1	169	BCR158W	3k	SP000750762	BCR158WH6327XTSA1	165
BC857S	3k	SP000747456	BC857SH6327XTSA1	169	BCR162	3k	SP000010785	BCR162E6327HTSA1	165
BC857S	3k	SP000747578	BC857SH6794XTSA1	169	BCR166	10k	SP000010791	BCR166E6433HTMA1	165
BC857S	3k	SP000747580	BC857SH6827XTSA1	169	BCR166	10x3k	SP000056344	BCR166B6327HTSA1	165
BC858A	3k	SP000010636	BC858AE6327HTSA1	168	BCR166	3k	SP000010788	BCR166E6327HTSA1	165
BC858B	10k	SP000010652	BC858BE6433HTMA1	168	BCR166W	3k	SP000750764	BCR166WH6327XTSA1	165
BC858B	3k	SP000010634	BC858BE6327HTSA1	168	BCR169	3k	SP000010793	BCR169E6327HTSA1	165
BC858BW	3k	SP000747582	BC858BWH6327XTSA1	168	BCR169S	3k	SP000756842	BCR169SH6327XTSA1	166
BC858C	10k	SP000010654	BC858CE6433HTMA1	168	BCR169W	3k	SP000756844	BCR169WH6327XTSA1	165
BC858C	3k	SP000010624	BC858CE6327HTSA1	168	BCR183	10k	SP000010796	BCR183E6433HTMA1	165
BC858CW	3k	SP000747584	BC858CWH6327XTSA1	168	BCR183	3k	SP000010794	BCR183E6327HTSA1	165
BC859C	3k	SP000010637	BC859CE6327HTSA1	168	BCR183S	3k	SP000756882	BCR183SH6327XTSA1	166
BC860B	3k	SP000010642	BC860BE6327HTSA1	172	BCR183U	3k	SP000012552	BCR183UE6327HTSA1	166
BC860BW	3k	SP000747586	BC860BWH6327XTSA1	172	BCR183W	3k	SP000757002	BCR183WH6327XTSA1	165
BC860CW	3k	SP000747588	BC860CWH6327XTSA1	172	BCR185	10k	SP000010807	BCR185E6433HTMA1	165
BCM846S	3k	SP000747590	BCM846SH6327XTSA1	172	BCR185	3k	SP000010806	BCR185E6327HTSA1	165
BCM856S	10k	SP000747594	BCM856SH6433XTMA1	172	BCR185S	3k	SP000757888	BCR185SH6327XTSA1	166
BCM856S	3k	SP000747592	BCM856SH6327XTSA1	172	BCR191	3k	SP000010810	BCR191E6327HTSA1	165
BCM856S	3k	SP000747596	BCM856SH6778XTSA1	172	BCR191W	3k	SP000757896	BCR191WH6327XTSA1	165
BCEP29	1k	SP000010883	BCEP29E6327HTSA1	173	BCR192	3k	SP000010812	BCR192E6327HTSA1	165
BCEP49	1k	SP000010885	BCEP49E6327HTSA1	173	BCR192W	3k	SP000757898	BCR192WH6327XTSA1	166
BCEP51-16	1k	SP000010694	BCEP5116E6327HTSA1	171	BCR196	3k	SP000014762	BCR196E6327HTSA1	166
BCEP51-16	4k	SP000010703	BCEP5116E6433HTMA1	171	BCR196W	3k	SP000757902	BCR196WH6327XTSA1	166
BCEP51	1k	SP000010692	BCEP51E6327HTSA1	171	BCR198	10k	SP000010820	BCR198E6433HTMA1	166
BCEP52-16	1k	SP000010696	BCEP5216E6327HTSA1	171	BCR198	10x3k	SP000056350	BCR198B6327HTSA1	166
BCEP53-10	1k	SP000010697	BCEP5310E6327HTSA1	171	BCR198	3k	SP000010817	BCR198E6327HTSA1	166
BCEP53-16	1k	SP000010698	BCEP5316E6327HTSA1	171	BCR198S	3k	SP000757904	BCR198SH6327XTSA1	166
BCEP53-16	4k	SP000010702	BCEP5316E6433HTMA1	171	BCR198W	3k	SP000757912	BCR198WH6327XTSA1	166
BCEP54-16	1k	SP000010709	BCEP5416E6327HTSA1	171	BCR205W	3k	SP000866560	BCR205WH6327XTSA1	179
BCEP54-16	4k	SP000010717	BCEP5416E6433HTMA1	171	BCR22PN	10k	SP000757920	BCR22PNH6433XTMA1	166
BCEP54	1k	SP000010707	BCEP54E6327HTSA1	171	BCR22PN	3k	SP000757916	BCR22PNH6327XTSA1	166
BCEP55-16	1k	SP000010711	BCEP5516E6327HTSA1	171	BCR320U	3k	SP000665920	BCR320UE6327HTSA1	179
BCEP55	1k	SP000010713	BCEP55E6327HTSA1	171	BCR321U	3k	SP000665918	BCR321UE6327HTSA1	179
BCEP56-10	1k	SP000010712	BCEP5610E6327HTSA1	171	BCR35PN	10k	SP000757928	BCR35PNH6433XTMA1	166
BCEP56-16	1k	SP000010706	BCEP5616E6327HTSA1	171	BCR35PN	3k	SP000757922	BCR35PNH6327XTSA1	166
BCEP69-25	1k	SP000015154	BCEP6925E6327HTSA1	171	BCR400W	3k	SP000745168	BCR400WH6327XTSA1	148
BCR08PN	10k	SP000750770	BCR08PNH6433XTMA1	166	BCR401R	10k	SP000839202	BCR401RE6433HTMA1	179
BCR08PN	3k	SP000750766	BCR08PNH6327XTSA1	166	BCR401R	3k	SP000013678	BCR401RE6327HTSA1	179
BCR08PN	3k	SP000750772	BCR08PNH6727XTSA1	166	BCR401U	3k	SP000031154	BCR401UE6327HTSA1	179
BCR108	10k	SP000010737	BCR108E6433HTMA1	165	BCR401W	3k	SP000745176	BCR401WH6327XTSA1	179
BCR108	3k	SP000010736	BCR108E6327HTSA1	165	BCR402R	10k	SP000839204	BCR402RE6433HTMA1	179
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BCR420U	3k	SP0000665924	BCR420UE6327HTSA1	179	BCX71G	3k	SP000010623	BCX71GE6327HTSA1	169
BCR421U	3k	SP0000665922	BCR421UE6327HTSA1	179	BCX71H	3k	SP000010631	BCX71HE6327HTSA1	169
BCR450	3k	SP0000394437	BCR450E6327HTSA1	179	BCX71J	10k	SP000010647	BCX71JE6433HTMA1	169
BCR48PN	3k	SP000757930	BCR48PNH6327XTSA1	166	BCX71J	3k	SP000010625	BCX71JE6327HTSA1	169
BCR503	3k	SP000010839	BCR503E6327HTSA1	167	BCX71K	3k	SP000010632	BCX71KE6327HTSA1	169
BCR505	3k	SP000010841	BCR505E6327HTSA1	167	BDP947	1k	SP000010931	BDP947E6327HTSA1	171
BCR512	3k	SP000010844	BCR512E6327HTSA1	167	BDP948	1k	SP000010938	BDP948E6327HTSA1	171
BCR521	3k	SP000010845	BCR521E6327HTSA1	167	BDP948	4k	SP000010943	BDP948E6433HTMA1	171
BCR523	10k	SP000010852	BCR523E6433HTMA1	167	BDP949	1k	SP000010932	BDP949E6327HTSA1	171
BCR523	3k	SP000010851	BCR523E6327HTSA1	167	BDP950	1k	SP000010939	BDP950E6327HTSA1	171
BCR523U	3k	SP000013381	BCR523UE6327HTSA1	167	BDP953	1k	SP000010934	BDP953E6327HTSA1	171
BCR533	3k	SP000010853	BCR533E6327HTSA1	167	BDP954	1k	SP000010941	BDP954E6327HTSA1	171
BCR553	3k	SP000010854	BCR555E6327HTSA1	167	BF1005	3k	SP000010946	BF1005E6327HTSA1	156
BCR555	10k	SP000010857	BCR555E6433HTMA1	167	BF1005S	3k	SP000010949	BF1005SE6327HTSA1	156
BCR555	3k	SP000010855	BCR555E6327HTSA1	167	BF1009S	3k	SP000010955	BF1009SE6327HTSA1	156
BCR562	3k	SP000010859	BCR562E6327HTSA1	167	BF1009SR	3k	SP000010956	BF1009SRE6327HTSA1	156
BCR573	10k	SP000010860	BCR573E6433HTMA1	167	BF2030	3k	SP000012219	BF2030E6814HTSA1	156
BCR573	3k	SP000010861	BCR573E6327HTSA1	167	BF2030R	3k	SP000012220	BF2030RE6814HTSA1	156
BCR583	3k	SP000012278	BCR583E6327HTSA1	167	BF2030W	10k	SP000752046	BF2030WH6824XTMA1	156
BCV26	3k	SP000010874	BCV26E6327HTSA1	173	BF2030W	3k	SP000752012	BF2030WH6814XTSA1	156
BCV27	3k	SP000010865	BCV27E6327HTSA1	173	BF2040	3k	SP000012215	BF2040E6814HTSA1	156
BCV28	1k	SP000010879	BCV28E6327HTSA1	173	BF2040R	3k	SP000012216	BF2040RE6814HTSA1	156
BCV46	3k	SP000010873	BCV46E6327HTSA1	173	BF2040W	3k	SP000753484	BF2040WH6814XTSA1	156
BCV47	10k	SP000010864	BCV47E6433HTMA1	173	BF5020W	3k	SP000753486	BF5020WH6327XTSA1	156
BCV47	3k	SP000010866	BCV47E6327HTSA1	173	BF5030W	3k	SP000753488	BF5030WH6327XTSA1	156
BCV48	1k	SP000010880	BCV47E6327HTSA1	173	BF517	3k	SP000010958	BF517E6327HTSA1	145
BCV49	1k	SP000010882	BCV49E6327HTSA1	173	BF771	3k	SP000010967	BF771E6327HTSA1	147
BCV61B	10k	SP000010888	BCV61BE6433HTMA1	172	BF799	3k	SP000010973	BF799E6327HTSA1	147
BCV61B	3k	SP000010886	BCV61BE6327HTSA1	172	BF799W	3k	SP000734406	BF799WH6327XTSA1	147
BCV61C	3k	SP000010887	BCV61CE6327HTSA1	172	BF998	3k	SP000010978	BF998E6327HTSA1	156
BCV62A	3k	SP000010889	BCV62AE6327HTSA1	172	BF998R	3k	SP000010979	BF998RE6327HTSA1	156
BCV62B	10k	SP000010893	BCV62BE6433HTMA1	172	BF999	10k	SP000426300	BF999E6433HTMA1	156
BCV62B	3k	SP000010890	BCV62AE6327HTSA1	172	BF999	3k	SP000010985	BF999E6327HTSA1	156
BCV62C	3k	SP000010891	BCV62CE6327HTSA1	172	BFN18	1k	SP000010997	BFN18E6327HTSA1	173
BCW60B	3k	SP000010551	BCW60BE6327HTSA1	169	BFN19	1k	SP000010998	BFN19E6327HTSA1	173
BCW60C	3k	SP000010548	BCW60CE6327HTSA1	169	BFN24	3k	SP000014784	BFN24E6327HTSA1	173
BCW60D	3k	SP000010549	BCW60DE6327HTSA1	169	BFN26	10k	SP000014786	BFN26E6433HTMA1	173
BCW60FF	3k	SP000010554	BCW60FFE6327HTSA1	172	BFN26	3k	SP000014785	BFN26E6327HTSA1	173
BCW61A	3k	SP000010621	BCW61AE6327HTSA1	169	BFN27	3k	SP000014782	BFN27E6327HTSA1	173
BCW61B	3k	SP000010629	BCW61BE6327HTSA1	169	BFN38	1k	SP000011006	BFN26E6327HTSA1	173
BCW61C	3k	SP000010622	BCW61CE6327HTSA1	169	BFN39	1k	SP000014781	BFN39E6327HTSA1	173
BCW61D	3k	SP000010627	BCW61DE6327HTSA1	169	BFP181	3k	SP000011013	BFP181E7764HTSA1	145
BCW66KF	3k	SP000271902	BCW66KFE6327HTSA1	170	BFP182R	3k	SP000011016	BFP182E7764HTSA1	145
BCW66KG	3k	SP000271904	BCW66KGE6327HTSA1	170	BFP183	3k	SP000011018	BFP183E7764HTSA1	145
BCW66KH	10x3k	SP000271905	BCW66KHE6327HTLA1	170	BFP183W	3k	SP000745244	BFP183WE6327HTSA1	145
BCW66KH	3k	SP000271906	BCW66KHE6327HTSA1	170	BFP193	3k	SP000011024	BFP193E6327HTSA1	147
BCW67B	3k	SP000015035	BCW67BE6327HTSA1	170	BFP193W	3k	SP000745248	BFP193WH6327XTSA1	147
BCW67C	3k	SP000015037	BCW67CE6327HTSA1	170	BFP196	3k	SP000011027	BFP196E6327HTSA1	147
BCW68F	3k	SP000015041	BCW68FE6327HTSA1	170	BFP196W	3k	SP000745250	BFP196WH6327XTSA1	147
BCW68G	3k	SP000015039	BCW68GE6327HTSA1	170	BFP405	3k	SP000745254	BFP405H6327HTSA1	146
BCW68H	3k	SP000015040	BCW68HE6327HTSA1	170	BFP405	3k	SP000745256	BFP405H6740XTSA1	146
BCX41	10k	SP000010896	BCX41E6433HTMA1	173	BFP405F	3k	SP000745258	BFP405FH6327XTSA1	146
BCX41	3k	SP000010894	BCX41E6327HTSA1	173	BFP410	3k	SP000762244	BFP410H6327XTSA1	146
BCX42	10k	SP000010902	BCX42E6433HTMA1	173	BFP420	10k	SP000745262	BFP420H6433XTMA1	146
BCX42	3k	SP000010900	BCX42E6327HTSA1	173	BFP420	3k	SP000745260	BFP420H6327XTSA1	146
BCX51-16	1k	SP000014827	BCX5116E6327HTSA1	171	BFP420	3k	SP000745264	BFP420H6740XTSA1	146
BCX51	1k	SP000014826	BCX51E6327HTSA1	171	BFP420	3k	SP000745266	BFP420H6801XTSA1	146
BCX52-16	1k	SP000014830	BCX5216E6327HTSA1	171	BFP420F	3k	SP000745268	BFP420FH6327XTSA1	146
BCX52-16	4k	SP000463248	BCX5216E6433HTMA1	171	BFP450	10k	SP000745272	BFP450H6433XTMA1	147
BCX52	1k	SP000014828	BCX52E6327HTSA1	171	BFP450	3k	SP000745270	BFP450H6327HTSA1	147
BCX53-10	1k	SP000010908	BCX5310E6327HTSA1	171	BFP460	3k	SP000745276	BFP460H6327XTSA1	146
BCX53-16	1k	SP000010907	BCX5316E6327HTSA1	171	BFP520	3k	SP000745280	BFP520H6327XTSA1	146
BCX53-16	4k	SP000010909	BCX5316E6433HTMA1	171	BFP520F	3k	SP000745282	BFP520FH6327XTSA1	146
BCX53	1k	SP000010906	BCX53E6327HTSA1	171	BFP540	3k	SP000745288	BFP540H6327XTSA1	146
BCX54-16	1k	SP000010918	BCX5416E6327HTSA1	171	BFP540ESD	3k	SP000745298	BFP540ESDH6327XTSA1	146
BCX55-16	1k	SP000010920	BCX5516E6327HTSA1	171	BFP540FESD	3k	SP000745300	BFP540FESDH6327XTSA1	146
BCX55-16	4k	SP000010922	BCX5516E6433HTMA1	171	BFP620	3k	SP000745302	BFP620H7764XTSA1	146
BCX55	1k	SP000010916	BCX55E6327HTSA1	171	BFP620F	3k	SP000745304	BFP620FH7764XTSA1	146
BCX56-10	1k	SP000010915	BCX5610E6327HTSA1	171	BFP640	3k	SP000745306	BFP640H6327XTSA1	146
BCX56-16	1k	SP000010913	BCX5616E6327HTSA1	171	BFP640ESD	3k	SP000785482	BFP640ESDH6327XTSA1	146
BCX56-16	4k	SP000017942	BCX5616E6433HTMA1	171	BFP640F	3k	SP000750404	BFP640FH6327XTSA1	146
BCX56	1k	SP000010914	BCX56E6327HTSA1	171	BFP640FESD	3k	SP000890034	BFP640FESDH6327XTSA1	146
BCX68-10	1k	SP000010924	BCX6810E6327HTSA1	171	BFP650	3k	SP000750406	BFP650H6327XTSA1	147
BCX68-16	1k	SP000010925	BCX6816E6327HTSA1	171	BFP650F	3k	SP000750408	BFP650FH6327XTSA1	147
BCX68-25	1k	SP000010926	BCX6825E6327HTSA1	171	BFP720	3k	SP000750410	BFP720H6327XTSA1	146
BCX69-10	1k	SP000010928	BCX6910E6327HTSA1	171	BFP720ESD	3k	SP000785484	BFP720ESDH6327XTSA1	146
BCX69-16	1k	SP000010929	BCX6916E6327HTSA1	171	BFP720F	3k	SP000750412	BFP720FH6327XTSA1	146
BCX69-25	1k	SP000010930	BCX6925E6327HTSA1	171	BFP720FESD	3k	SP000853562	BFP720FESDH6327XTSA1	146
BCX70G	3k	SP000010555	BCX70GE6327HTSA1	169	BFP740	3k	SP000750414	BFP740H6327XTSA1	146
BCX70H	10k	SP000010578	BCX70HE6433HTMA1	169	BFP740ESD	3k	SP000785486	BFP740ESDH6327XTSA1	146
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BFR106	3k	SP000011044	BFR106E6327HTSA1	147	BGM1034N7	3k	SP000906264	BGM1034N7E6327XUSA1	149
BFR181	3k	SP000011047	BFR181E6327HTSA1	145	BGM1043N7	3k	SP000974632	BGM1043N7E6327XUSA1	149
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BFR182W	3k	SP000750420	BFR182WH6327XTSA1	145	BGM781N11	7.5k	SP000684730	BGM781N11E6327XUSA1	149
BFR183	3k	SP000011054	BFR183E6327HTSA1	145	BGR405	3k	SP000750466	BGR405H6327XTSA1	148
BFR183W	3k	SP000750422	BFR183WH6327XTSA1	145	BGR420	3k	SP000750468	BGR420H6327XTSA1	148
BFR193	3k	SP000011056	BFR193E6327HTSA1	147	BGS12AL7-4	7.5k	SP000427434	BGS12AL74E6327XTSA1	148
BFR193F	3k	SP000750424	BFR193FH6327XTSA1	147	BGS12AL7-6	7.5k	SP000531868	BGS12AL76E6327XTMA1	148
BFR193L3	3k	SP000013557	BFR193L3E6327XTMA1	147	BGS15AN16	7.5k	SP000795644	BGS15AN16E6327XTSA1	148
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BFR340F	3k	SP000750426	BFR340FH6327XTSA1	145	BSB008NE2LX		SP000880886	BSB008NE2LXXUMA1	74
BFR340L3	15k	SP000013558	BFR340L3E6327XTMA1	145	BSB012N03LX3 G		SP000597846	BSB012N03LX3GXUMA1	75
BFR35AP	3k	SP000011060	BFR35APE6327HTSA1	145	BSB012NE2LX		SP000756344	BSB012NE2LXXUMA1	74
BFR360F	3k	SP000750428	BFR360FH6327XTSA1	145	BSB013NE2LX		SP000756346	BSB013NE2LXIXUMA1	74
BFR360F	3k	SP000750442	BFR360FH6765XTSA1	145	BSB014N04LX3 G		SP000597850	BSB014N04LX3GXUMA1	78
BFR360L3	15k	SP000013561	BFR360L3E6765XTMA1	145	BSB015N04NX3 G		SP000597852	BSB015N04NX3GXUMA1	78
BFR380F	3k	SP000750444	BFR380FH6327XTSA1	147	BSB017N03LX3 G		SP000604452	BSB017N03LX3GXUMA1	75
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BFR720L3RH	3k	SP000463888	BFR720L3RHE6327XTSA1	146	BSB044N08NN3 G		SP000604540	BSB044N08NN3GXUMA1	81
BFR740L3RH	15k	SP000252393	BFR740L3RHE6327XTSA1	146	BSB056N10NN3 G		SP000604542	BSB056N10NN3GXUMA1	82
BFR750L3RH	15k	SP000252588	BFR750L3RHE6327XTSA1	146	BSB056N10NN3 G		SP000585178	BSB056N10NN3GE8182XUMA1	82
BFR92P	3k	SP000011062	BFR92PE6327HTSA1	145	BSB165N15NZ3 G		SP000617000	BSB165N15NZ3GXUMA1	84
BFR92W	3k	SP000750446	BFR92WH6327XTSA1	145	BSB280N15NZ3 G		SP000604534	BSB280N15NZ3GXUMA1	84
BFR93A	3k	SP000011066	BFR93AE6327HTSA1	147	BSC009NE2LS		SP000893362	BSC009NE2LSATMA1	74
BFR93AW	3k	SP000734402	BFR93AWH6327XTSA1	147	BSC010NE2LS		SP000776124	BSC010NE2LSATMA1	74
BFS17P	3k	SP000011073	BFS17PE6327HTSA1	145	BSC010NE2LSI		SP000854376	BSC010NE2LSIATMA1	74
BFS17S	3k	SP000750448	BFS17SH6327XTSA1	145	BSC011N03LS		SP000799082	BSC011N03LSATMA1	75
BFS17W	3k	SP000750450	BFS17WH6327XTSA1	145	BSC011N03LSI		SP000884574	BSC011N03LSIATMA1	75
BFS481	3k	SP000750462	BFS481H6327XTSA1	145	BSC014N03LS G		SP000394677	BSC014N03LSGATMA1	75
BFS483	3k	SP000750464	BFS483H6327XTSA1	145	BSC014N03MS G		SP000394681	BSC014N03MSGATMA1	77
BG3123	3k	SP000753490	BG3123H6327XTSA1	156	BSC014NE2LSI		SP000911336	BSC014NE2LSIATMA1	74
BG3123R	3k	SP000753492	BG3123RH6327XTSA1	156	BSC016N03LS G		SP000237663	BSC016N03LSGATMA1	75
BG3130	3k	SP000753494	BG3130H6327XTSA1	156	BSC016N03MS G		SP000311502	BSC016N03MSGATMA1	77
BG3130R	3k	SP000753496	BG3130RH6327XTSA1	156	BSC016N04LS G		SP000394801	BSC016N04LSGATMA1	78
BG3430R	3k	SP000753498	BG3430RH6327XTSA1	156	BSC017N04NS G		SP000394684	BSC017N04NSGATMA1	78
BG5120K	3k	SP000753500	BG5120KH6327XTSA1	156	BSC018N04LS G		SP000388293	BSC018N04LSGATMA1	78
BG5412K	3k	SP000753502	BG5412KH6327XTSA1	156	BSC018NE2LS		SP000756336	BSC018NE2LSATMA1	74
BGA231L7	7.5k	SP000871206	BGA231L7E6327XTSA1	149	BSC018NE2LSI		SP000906030	BSC018NE2LSIATMA1	74
BGA416	3k	SP000013607	BGA416E6327HTSA1	149	BSC019N02KSG		SP000307376	BSC019N02KSGAUMA1	74
BGA420	3k	SP000753504	BGA420H6327XTSA1	149	BSC019N04NS G		SP000388299	BSC019N04NSGATMA1	78
BGA427	3k	SP000753506	BGA427H6327XTSA1	149	BSC020N03LS G		SP000237662	BSC020N03LSGATMA1	75
BGA428	3k	SP000753508	BGA428H6327XTSA1	149	BSC020N03MS G		SP000311503	BSC020N03MSGATMA1	77
BGA461	7.5k	SP000463628	BGA461E6327XTSA1	149	BSC025N03LS G		SP000269781	BSC025N03LSGATMA1	75
BGA612	3k	SP000753510	BGA612H6327XTSA1	149	BSC025N03MS G		SP000311505	BSC025N03MSGATMA1	77
BGA614	3k	SP000753512	BGA614H6327XTSA1	149	BSC026N02KS G		SP000379664	BSC026N02KSGAUMA1	74
BGA615L7	7.5k	SP000016766	BGA615L7E6327XTSA1	149	BSC027N04LS G		SP000354810	BSC027N04LSGATMA1	78
BGA616	3k	SP000753514	BGA616H6327XTSA1	149	BSC028N06LS3 G		SP000453652	BSC028N06LS3GATMA1	79
BGA622	3k	SP000753516	BGA622H6820XTSA1	149	BSC028N06NS G		SP000917416	BSC028N06NSGATMA1	79
BGA622L7	7.5k	SP000017535	BGA622L7E6327XTSA1	149	BSC030N03LS G		SP000237661	BSC030N03LSGATMA1	75
BGA628L7	7.5k	SP000529594	BGA628L7E6327XTMA1	149	BSC030N03MS G		SP000311506	BSC030N03MSGATMA1	77
BGA711L7	7.5k	SP000417112	BGA711L7E6327XTSA1	150	BSC030N04NS G		SP000354811	BSC030N04NSGATMA1	78
BGA713L7	7.5k	SP000846762	BGA713L7E6327XTSA1	150	BSC030P03NS3 G		SP000442470	BSC030P03NS3GAUMA1	96
BGA715L7	7.5k	SP000430024	BGA715L7E6327XTSA1	149	BSC031N06NS3 G		SP000451482	BSC031N06NS3GATMA1	79
BGA725L6	15k	SP000942752	BGA725L6E6327XTSA1	149	BSC032NE2LS		SP000854378	BSC032NE2LSATMA1	74
BGA728L7	7.5k	SP000409848	BGA728L7E6327XTSA1	149	BSC034N03LS G		SP000475948	BSC034N03LSGATMA1	75
BGA734L16	7.5k	SP000293791	BGA734L16E6327XTSA1	150	BSC035N04LS G		SP000391503	BSC035N04LSGATMA1	78
BGA735N16	7.5k	SP000659248	BGA735N16E6327XTSA1	150	BSC036NE7NS3 G		SP000907920	BSC036NE7NS3GATMA1	81
BGA736L16	7.5k	SP000366348	BGA736L16E6327XTSA1	150	BSC037N03MSC G		SP000527434	BSC037N03MSCGATMA1	77
BGA748L16	7.5k	SP000608112	BGA748L16E6327XTSA1	150	BSC042N03LS G		SP000302864	BSC042N03LSGATMA1	75
BGA749N16	7.5k	SP000765164	BGA749N16E6327XTSA1	150	BSC042N03MS G		SP000311512	BSC042N03MSGATMA1	77
BGA751L7	7.5k	SP000417120	BGA751L7E6327XTSA1	150	BSC042NE7NS3 G		SP000657440	BSC042NE7NS3GATMA1	81
BGA758L7	7.5k	SP000671390	BGA758L7E6327XTMA1	149	BSC043N03MSC G		SP000509800	BSC043N03MSCGATMA1	77
BGA777L7	7.5k	SP000627608	BGA777L7E6327XTSA1	150	BSC046N02KS G		SP000379666	BSC046N02KSGAUMA1	74
BGA915N7	7.5k	SP000849368	BGA915N7E6327XTMA1	149	BSC046N10NS3 G		SP000907922	BSC046N10NS3GATMA1	82
BGA925L6	15k	SP000902116	BGA925L6E6327XTSA1	149	BSC047N08NS3 G		SP000436372	BSC047N08NS3GATMA1	81
BGB707L7ESD	7.5k	SP000531308	BGB707L7ESDE6327XTSA1	150	BSC049N03MSC G		SP000505958	BSC049N03MSCGATMA1	77
BGB717L7ESD	20k	SP000638992	BGB717L7ESDE6433XTMA1	150	BSC050N03LS G		SP000269785	BSC050N03LSGATMA1	75
BGB717L7ESD	7.5k	SP000555608	BGB717L7ESDE6327XTSA1	150	BSC050N03MS G		SP000311507	BSC050N03MSGATMA1	77
BGB719N7ESD	7.5k	SP000942784	BGB719N7ESDE6327XTMA1	150	BSC050N04LS G		SP000354806	BSC050N04LSGATMA1	74
BGB741L7ESD	7.5k	SP000442946	BGB741L7ESDE6327XTSA1	150	BSC050NE2LS		SP000756340	BSC050NE2LSATMA1	74
BGF104C	4.5k	SP000703762	BGF104CE6328XTSA1	158	BSC052N03LS		SP000807602	BSC052N03LSATMA1	75
BGF106C	4.5k	SP000646832	BGF106CE6328XTSA1	158	BSC054N04NS G		SP000354808	BSC054N04NSGATMA1	78
BGF108C	4.5k	SP000482542	BGF108CE6328XTSA1	158	BSC057N03LS G		SP000275113	BSC057N03LSGATMA1	75
BGF109C	4.5k	SP000465532	BGF109CE6328XTSA1	158	BSC057N03MS G		SP000311513	BSC057N03MSGATMA1	77
BGF112	4.5k	SP000459860	BGF112E6328XTSA1	158	BSC057N08NS3 G		SP000447542	BSC057N08NS3GATMA1	81
BGF113	4.5k	SP000415014	BGF113E6328XTSA1	158	BSC059N04LS G		SP000391499	BSC059N04LSGATMA1	78
BGF117	4.5k	SP000737100	BGF117E6328XTSA1	158	BSC060N10NS3 G		SP000446584	BSC060N10NS3GATMA1	82
BGF119	9k	SP000681630	BGF119E6329XTSA1	158	BSC060P03NS3E G		SP000472984	BSC060P03NS3EGATMA1	96
BGF121	9k	SP000681628	BGF121E6329XTSA1	158	BSC067N06LS3 G		SP000451084	BSC067N06LS3GATMA1	79
BGF127	4.5k	SP000609000	BGF127E6328XTSA1	158	BSC070N10NS3 G		SP000778082	BSC070N10NS3GATMA1	82
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BSC080N03MS G	SP000311514	BSC080N03MSGATMA1	77	BSL315P	SP000442408	BSL315PL6327HTSA1	97	
BSC080P03LS G	SP000359664	BSC080P03LSGAUMA1	96	BSL316C	SP000442412	BSL316CL6327HTSA1	98	
BSC082N10LS G	SP000379609	BSC082N10LSGATMA1	82	BSL802SN	SP000442478	BSL802SNL6327HTSA1	74	
BSC084P03NS3 G	SP000473020	BSC084P03NS3GATMA1	96	BSL806N	SP000464844	BSL806NL6327HTSA1	79	
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BSC0901NS	SP000800248	BSC0901NSATMA1	75	BSO038N03MSC G	SP000527604	BSO038N03MSCGXUMA1	77	
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BSC159N10LSF G	SP000379614	BSC159N10LSFGATMA1	82	BSO612CV G	SP000216307	BSO612CVGHUMA1	98	
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BSD235N	SP000917652	BSD235NH6327XTSA1	74	BSP318S	SP000235371	BSP318SL6327HTSA1	80	
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BSL215C	SP000442436	BSL215CL6327HTSA1	98	BSP742RI	SP000278925	BSP742RIXUMA1	112	
BSL215P	SP000442422	BSL215PL6327HTSA1	97	BSP742T	SP000311133	BSP742TXUMA1	112	
BSL302SN	SP000257783	BSL302SNL6327HTSA1	75	BSP752R	SP000355392	BSP752RXUMA2	112	



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BSS159N H6906	SP000702636	BSS159NH6906XTSA1	99	BSZ520N15NS3 G	SP000607022	BSZ520N15NS3GATMA1	84
BSS159N L6906	SP000247298	BSS159NL6906HTSA1	99	BSZ900N15NS3 G	SP000677866	BSZ900N15NS3GATMA1	84
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BSS816NW H6327	SP000917562	BSS816NWH6327XTSA1	74	BTN7970S	SP000355969	BTN7970SAKSA1	121
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BSS84P L6433	SP000924084	BSS84PH6433XTMA1	96	BTS 824R	SP000013628	BTS824RNUMA1	116
BSS84PW	SP000247312	BSS84PWL6327HTMA1	96	BTS110	SP000011184	BTS110NKSA1	109
BSS84PW H6327	SP000917564	BSS84PWH6327XTSA1	96	BTS110 E3045A	SP000011183	BTS110E3045ANTMA1	109
BSS87	SP000095794	BSS87L6327HTSA1	85	BTS112A	SP000011185	BTS112ANKSA1	109
BSV236SP	SP000245421	BSV236SPL6327HTSA1	97	BTS112A E3045A	SP000011186	BTS112AE3045ANTMA1	109
BSV236SP	SP000917672	BSV236SPH6327XTSA1	97	BTS113A	SP000011187	BTS113ANKSA1	109
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BSZ019N03LS	SP000792362	BSZ019N03LSATMA1	75	BTS114A	SP000011191	BTS114ANKSA1	109
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BSZ050N03MS G	SP000311518	BSZ050N03MSGATMA1	77	BTS121A	SP000011200	BTS121ANKSA1	109
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ICLS6021J	SP000869140	ICLS6021JXKLA1	180	IFX25001TC V50	SP000611474	IFX25001TCV50ATMA1	130
ICLS6022G	SP000897654	ICLS6022GXUMA1	180	IFX25001TC V85	SP000623112	IFX25001TCV85ATMA1	130
ICLS6022J	SP000877356	ICLS6022JXKLA1	180	IFX25001TF V33	SP000623156	IFX25001TFV33ATMA1	131
ICLS6023J	SP000890998	ICLS6023JXKLA1	180	IFX25001TF V50	SP000614696	IFX25001TFV50ATMA1	130
ICLS6023Z	SP000891000	ICLS6023ZXKLA1	180	IFX25001TS V10	SP000623070	IFX25001TSV10AKSA1	130
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IDB09E60	SP000013914	IDB09E60ATMA1	107	IFX25001TS V85	SP000623094	IFX25001TSV85AKSA1	130
IDB10S60C	SP000411540	IDB10S60CATMA1	108	IFX25401TB V50	SP000623298	IFX25401TBV50ATMA1	131
IDB12E120	SP000013640	IDB12E120ATMA1	107	IFX25401TBV	SP000611478	IFX25401TBVATMA1	131
IDB15E60	SP000014044	IDB15E60ATMA1	107	IFX25401TE V50	SP000623308	IFX25401TEV50ATMA1	131
IDB18E120	SP000013919	IDB18E120ATMA1	107	IFX25401TEV	SP000614698	IFX25401TEVATMA1	131
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IDB30E120	SP000013641	IDB30E120ATMA1	107	IFX27001TF V26	SP000624182	IFX27001TFV26ATMA1	131
IDB30E60	SP000013917	IDB30E60ATMA1	107	IFX27001TF V33	SP000624112	IFX27001TFV33ATMA1	131
IDB45E60	SP000013635	IDB45E60ATMA1	107	IFX27001TF V50	SP000622990	IFX27001TFV50ATMA1	130
IDD03E60	SP000013632	IDD03E60BUMA1	107	IFX27001TFV	SP000624090	IFX27001TFVATMA1	131
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IDD04IPBS60C	SP000080224	IDD04S60CBUMA1	108	IFX2931G V50	SP000431776	IFX2931GV50XUMA1	130
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IDD06E60	SP000077586	IDD06E60BUMA1	107	IFX80471 V50	SP000858404	IFX80471SKV50XUMA1	129
IDD06SG60C	SP000786808	IDD06SG60CXTMA1	108	IFX80471SK V	SP000858402	IFX80471SKVXUMA1	129
IDD08SG60C	SP000786810	IDD08SG60CXTMA1	108	IFX81171ME V	SP000357833	IFX8117MEVHTMA1	130
IDD09E60	SP000013634	IDD09E60BUMA1	107	IFX81171ME V33	SP000357831	IFX8117MEV33HTMA1	131
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IDH10S120	SP000293034	IDH10S120AKSA1	108	IGP06N60T	SP000683040	IGP06N60TXKSA1	104
IDH10S60C	SP000657996	IDH10S60CAKSA1	108	IGP10N60T	SP000683042	IGP10N60TXKSA1	104
IDH10SG60C	SP000607040	IDH10SG60CXKSA1	108	IGP15N60T	SP000683044	IGP15N60TXKSA1	104
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IDP30E120	SP000683030	IDP30E120XKSA1	107	IGW30N60H3	SP000852242	IGW30N60H3FKSA1	103
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IDV05S60C	SP000732204	IDV05S60CXKSA1	108	IGW50N60T	SP000054926	IGW50N60TFKSA1	104
IDV06S60C	SP000732206	IDV06S60CXKSA1	108	IGW60T120	SP000013906	IGW60T120FKSA1	104
IDV30E60C	SP000844186	IDV30E60CXKSA1	107	IGW75N60H3	SP000968804	IGW75N60H3FKSA1	103
IDW100E60	SP000227825	IDW100E60FKSA1	107	IGW75N60T	SP000054927	IGW75N60TFKSA1	104
IDW30E60	SP000916104	IDW30E60FKSA1	107	IHD06N60RA	SP000443672	IHD06N60RABUMA1	105
IDW75E60	SP000227824	IDW75E60FKSA1	107	IHD10N60RA	SP000443668	IHD10N60RABUMA1	105
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IFX1050G	SP000613990	IFX1050GXUMA1	140	IHW20N120R3	SP000437702	IHW20N120R3FKSA1	106
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IFX1117ME V33	SP000892486	IFX1117MEV33HTMA1	130	IHW30N100T	SP000086713	IHW30N100TFKSA1	105
IFX20001MB V33	SP000623344	IFX20001MBV33HTSA1	130	IHW30N110R3	SP000702510	IHW30N110R3FKSA1	106
IFX20001MB V50	SP000623428	IFX20001MBV50HTSA1	130	IHW30N120R2	SP000212017	IHW30N120R2FKSA1	106
IFX21004TN V51	SP000841766	IFX21004TNV51AKSA1	130	IHW30N160R2	SP000273701	IHW30N160R2FKSA1	106
IFX21401MB	SP000614692	IFX21401MBHTSA1	131	IHW30N60T	SP000076306	IHW30N60TFKSA1	104
IFX24401EL V50	SP000639070	IFX24401ELV50XUMA1	130	IHW30N90T	SP000076322	IHW30N90TFKSA1	105
IFX24401TE V50	SP000660598	IFX24401TEV50ATMA1	130	IHW40N60R	SP000357222	IHW40N60RFKSA1	105
IFX25001ME V25	SP000623288	IFX25001MEV25HTSA1	130	IHW40N60RF	SP000621080	IHW40N60RFFKSA1	105
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IKA15N60T	SP000215377	IKA15N60TXKSA1	104	IPA60R280E6	SP000797292	IPA60R280E6XKSA1	92
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ILD2035	3k SP000929218	ILD2035E6327HTSA1	179	IPB025N08N3 G	SP000311980	IPB025N08N3GATMA1	81
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ILD4035	3k SP000694112	ILD4035E6327HTSA1	179	IPB025N10N3 G	SP000939338	IPB025N10N3GE8187ATMA1	82
ILD4120	2.5k SP000785284	ILD4120E6327XUMA1	179	IPB027N10N3 G	SP000506508	IPB027N10N3GATMA1	82
ILD4180	2.5k SP000750736	ILD4180XUMA1	179	IPB029N06N3 G	SP000453052	IPB029N06N3GATMA1	79
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IPA180N10N3 G	SP000480108	IPA180N10N3GXKSA1	82	IPB039N10N3 G	SP000939340	IPB039N10N3GE8187ATMA1	82
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IPA50R250CP	SP000236080	IPA50R250CPXKSA1	86	IPB042N10N3 G	SP000446880	IPB042N10N3GATMA1	82
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IPA50R399CP	SP000234987	IPA50R399CPXKSA1	86	IPB049N06L3 G	SP000453056	IPB049N06L3GATMA1	79
IPA50R520CP	SP000236076	IPA50R520CPXKSA1	86	IPB049NE7N3 G	SP000641752	IPB049NE7N3GATMA1	81
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IPA60R125C6	SP000685848	IPA60R125C6XKSA1	91	IPB052N04N G	SP000391505	IPB052N04NGATMA1	78



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IPB055N03L G	SP000304110	IPB055N03LGATMA1	76	IPB60R160C6	SP000687552	IPB60R160C6ATMA1	91
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IPB120P04P4L-03	SP000842284	IPB120P04P4L03ATMA1	72	IPB80N04S2-H4	SP000218165	IPB80N04S2H4ATMA1	66
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IPB530N15N3 G	SP000521718	IPB530N15N3GATMA1	84	IPD035N06L3 G	SP000398066	IPD035N06L3GATMA1	79
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IPB60R099CPA	SP000315443	IPB60R099CPAATMA1	71	IPD040N03L G	SP000680628	IPD040N03LGATMA1	76

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IPD30N03S4L-14	SP000275919	IPD30N03S4L14ATMA1	65	IPD90N04S4L-04	SP000646188	IPD90N04S4L04ATMA1	66
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IPD30N06S2L-13	SP000262072	IPD30N06S2L13ATMA2	68	IPD90N06S4L-03	SP000374326	IPD90N06S4L03ATMA1	69
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IPD30N06S2L-23	SP000252168	IPD30N06S2L23ATMA1	68	IPD90N06S4L-06	SP000415594	IPD90N06S4L06ATMA1	69
IPD30N06S4L-23	SP000374320	IPD30N06S4L23ATMA1	69	IPD90P03P4-04	SP000396298	IPD90P03P404ATMA1	73
IPD30N08S2-22	SP000252169	IPD30N08S222ATMA1	70	IPD90P03P4L-04	SP000396300	IPD90P03P4L04ATMA1	73
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IPD30N10S3L-34	SP000261248	IPD30N10S3L34ATMA1	71	IPD90P04P4L-04	SP000840194	IPD90P04P4L04ATMA1	72
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IPD350N06L G	SP000443746	IPD350N06LGBTMA1	80	IPG20N04S4-09	SP000705570	IPG20N04S409ATMA1	67
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IPD400N06L G	SP000443744	IPD400N06NGBTMA1	80	IPG20N04S4L-07	SP000705484	IPG20N04S4L07ATMA1	67
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IPD50R520CP	SP000307380	IPD50R520CPBTMA1	86	IP104CN10N G	SP000680660	IP104CN10NGKXSA1	83
IPD530N15N3 G	SP000521720	IPD530N15N3GBTMA1	84	IP1052NE7N3 G	SP000657442	IP1052NE7N3GAKSA1	81
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IP1075N15N3 G	SP000680676	IP1075N15N3GXKSA1	84	IP180N04S4-04	SP000646190	IP180N04S404AKSA1	67
IP1076N12N3 G	SP000652738	IP1076N12N3GAKSA1	84	IP180N04S4L-04	SP000646192	IP180N04S4L04AKSA1	67
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IP1120N04S4-02	SP000764742	IP1120N04S402AKSA1	67	IP180P04P4-05	SP000652620	IP180P04P405AKSA1	72
IP1120N06S4-02	SP000415622	IP1120N06S402AKSA1	70	IP180P04P4-07	SP000842042	IP180P04P407AKSA1	72
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IP1126N10N3 G	SP000683076	IP1126N10N3GXKSA1	83	IP190N06S4-04	SP000379633	IP190N06S404AKSA1	70
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IP1147N12N3 G	SP000652744	IP1147N12N3GAKSA1	84	IP190R1K0C3	SP000683078	IP190R1K0C3XKSA1	95
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IP1200N15N3 G	SP000680722	IP1200N15N3GXKSA1	84	IP190R340C3	SP000683082	IP190R340C3XKSA1	95
IP1200N25N3 G	SP000714308	IP1200N25N3GAKSA1	85	IP190R500C3	SP000683084	IP190R500C3XKSA1	95
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IP145N06S4L-08	SP000374333	IP145N06S4L08AKSA1	70	IPP020N06N3 G	SP000917406	IPP020N06NAKSA1	80
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IP147N10S-33	SP000225703	IP147N10S33AKSA1	71	IPP023NE7N3 G	SP000641722	IPP023NE7N3GXKSA1	81
IP147N10SL-26	SP000225704	IP147N10SL26AKSA1	71	IPP024N06N3 G	SP000680764	IPP024N06N3GXKSA1	80
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IP150R199CP	SP000523756	IP150R199CPXKSA1	86	IPP032N06N3 G	SP000680770	IPP032N06N3GXKSA1	80
IP150R250CP	SP000523750	IP150R250CPXKSA1	86	IPP034N03L G	SP000680772	IPP034N03LGXKSA1	76
IP150R299CP	SP000523748	IP150R299CPXKSA1	86	IPP034NE7N3 G	SP000843890	IPP034NE7N3GHKSA1	81
IP150R350CP	SP000680736	IP150R350CPXKSA1	86	IPP037N06L3 G	SP000680774	IPP037N06L3GXKSA1	81
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IP160R125CP	SP000297355	IP160R125CPAKSA1	88	IPP042N03L G	SP000680792	IPP042N03LGXKSA1	76
IP160R165CP	SP000276736	IP160R165CPAKSA1	88	IPP045N10N3 G	SP000680794	IPP045N10N3GXKSA1	83
IP160R190C6	SP000680618	IP160R190C6XKSA1	91	IPP048N04N G	SP000648308	IPP048N04NGXKSA1	78
IP160R199CP	SP000103248	IP160R199CPAKSA1	88	IPP048N12N3 G	SP000652734	IPP048N12N3GXKSA1	84
IP160R280C6	SP000687554	IP160R280C6XKSA1	91	IPP04CN10N G	SP000680796	IPP04CN10NGXKSA1	83
IP160R299CP	SP000103249	IP160R299CPXKSA1	91	IPP052N06L3 G	SP000680802	IPP052N06L3GXKSA1	80
IP160R380C6	SP000680630	IP160R380C6XKSA1	89	IPP052NE7N3 G	SP000646650	IPP052NE7N3GHKSA1	81
IP160R385CP	SP000103250	IP160R385CPXKSA1	89	IPP054NE8N G	SP000680804	IPP054NE8NGHKS2	82
IP160R520CP	SP000405872	IP160R520CPAKSA1	89	IPP055N03L G	SP000680806	IPP055N03LGXKSA1	76
IP160R600CP	SP000405896	IP160R600CPAKSA1	89	IPP057N06N3 G	SP000680808	IPP057N06N3GXKSA1	80
IP165R110CFD	SP000896398	IP165R110CFDXKSA1	93	IPP057N08N3 G	SP000680810	IPP057N08N3GXKSA1	81
IP165R150CFD	SP000907028	IP165R150CFDXKSA1	93	IPP05CN10L G	SP000308801	IPP05CN10LGHKSA1	83
IP165R190C6	SP000863900	IP165R190C6XKSA1	94	IPP05CN10N G	SP000680814	IPP05CN10NGXKSA1	83
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IP165R280C6	SP000785056	IP165R280C6XKSA1	94	IPP062NE7N3 G	SP000819768	IPP062NE7N3GXKSA1	81
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IP165R420CFD	SP000891702	IP165R420CFDXKSA1	93	IPP065N06L G	SP000204182	IPP065N06LGAKSA1	80
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IPP120N04S4-01	SP000705704	IPP120N04S401AKSA1	67	IPP65R600E6	SP000850500	IPP65R600E6XKSA1	94
IPP120N04S4-02	SP000764734	IPP120N04S402AKSA1	67	IPP65R660CFD	SP000745026	IPP65R660CFDXKSA1	93
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IPP120N06S4-02	SP000415700	IPP120N06S402AKSA1	70	IPP70N04S4-06	SP000711480	IPP70N04S406AKSA1	68
IPP120N06S4-03	SP000396380	IPP120N06S403AKSA1	70	IPP70N10S3-12	SP000407122	IPP70N10S312AKSA1	71
IPP120N06S4-H1	SP000415698	IPP120N06S4H1AKSA1	70	IPP70N10S3L-12	SP000427252	IPP70N10S3L12AKSA1	71
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IPP120P04P4L-03	SP000842300	IPP120P04P4L03AKSA1	72	IPP70P04P4-09	SP000735978	IPP70P04P409AKSA1	72
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IPP12CN10L G	SP000680864	IPP12CN10LGXKSA1	83	IPP80CN10N G	SP000680966	IPP80CN10NGXKSA1	83
IPP139N08N3 G	SP000680870	IPP139N08N3GXKSA1	82	IPP80N03S4L-03	SP000275328	IPP80N03S4L03AKSA1	65
IPP147N03L G	SP000266315	IPP147N03LGHKSA1	76	IPP80N03S4L-04	SP000274981	IPP80N03S4L04AKSA1	65
IPP147N12N3 G	SP000652742	IPP147N12N3GXKSA1	84	IPP80N04S2-04	SP000219054	IPP80N04S204AKSA1	67
IPP16CN10L G	SP000680878	IPP16CN10LGXKSA1	83	IPP80N04S2-H4	SP000218169	IPP80N04S2H4AKSA1	67
IPP16CN10N G	SP000680880	IPP16CN10NGXKSA1	83	IPP80N04S2L-03	SP000219063	IPP80N04S2L03AKSA1	67
IPP180N10N3 G	SP000683090	IPP180N10N3GXKSA1	83	IPP80N04S3-03	SP000261229	IPP80N04S303AKSA1	67
IPP200N15N3 G	SP000680884	IPP200N15N3GXKSA1	84	IPP80N04S3-04	SP000261230	IPP80N04S304AKSA1	68
IPP200N25N3 G	SP000677894	IPP200N25N3GXKSA1	85	IPP80N04S3-06	SP000261233	IPP80N04S306AKSA1	68
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IPP260N06N3 G	SP000680918	IPP260N06N3GXKSA1	80	IPP80N04S4-04	SP000646196	IPP80N04S404AKSA1	67
IPP26CN10N G	SP000680922	IPP26CN10NGXKSA1	83	IPP80N04S4L-04	SP000646198	IPP80N04S4L04AKSA1	67
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IPP50CN10N G	SP000680930	IPP50CN10NGXKSA1	83	IPP80N06S2L-05	SP000219000	IPP80N06S2L05AKSA1	69
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IPP530N15N3 G	SP000521722	IPP530N15N3GXKSA1	84	IPP80P04P4-05	SP000652622	IPP80P04P405AKSA1	72
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IPP60R165CP	SP000084279	IPP60R165CPAKSA1	89	IPP90R2K2C3	SP000683096	IPP90R1K2C3XKSA1	95
IPP60R190C6	SP000621158	IPP60R190C6XKSA1	91	IPP90R340C3	SP000683098	IPP90R340C3XKSA1	95
IPP60R190E6	SP000797378	IPP60R190E6XKSA1	92	IPP90R500C3	SP000683100	IPP90R500C3XKSA1	95
IPP60R199CP	SP000084278	IPP60R199CPXKSA1	89	IPS040N03L G	SP000683102	IPP90R800C3XKSA1	95
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IPP60R280E6	SP000797290	IPP60R280E6XKSA1	92	IPS075N03L G	SP000705724	IPS060N03LGAKMA1	76
IPP60R299CP	SP000084280	IPP60R299CPXKSA1	89	IPS090N03L G	SP000705726	IPS075N03LGAKMA1	76
IPP60R380C6	SP000645062	IPP60R380C6XKSA1	91	IPS105N03L G	SP000788216	IPS090N03LGAKMA1	76
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IPP60R385CP	SP000082281	IPP60R385CPXKSA1	89	IPS118N10N G	SP000674456	IPS110N12N3G	84
IPP60R450E6	SP000842486	IPP60R450E6XKSA1	92	IPS12CN10L G	SP000680974	IPS118N10NG	83
IPP60R520C6	SP000645068	IPP60R520C6XKSA1	91	IPS135N03L G	SP000311530	IPS12CN10LGBKMA1	83
IPP60R520CP	SP000405860	IPP60R520CPAKSA1	89	IPS50R520CP	SP000788220	IPS135N03LGAKMA1	76
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IPW50R199CP	SP000236096	IPW50R199CPFKSA1	87	KP216H1416	SP000698282	KP216H1416XTMA1	185	
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IPW50R299CP	SP000301163	IPW50R299CPFKSA1	87	KP219N3621	SP000824058	KP219N3621XTMA1	185	
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IPW60R160C6	SP0000652798	IPW60R160C6FKSA1	91	PMA7105	SP000450408	PMA7105XUMA1	191	
IPW60R165CP	SP000095483	IPW60R165CPFKSA1	90	PMA7106	SP000450410	PMA7106XUMA1	191	
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IPW60R280E6	SP000797382	IPW60R280E6FKSA1	92	PZTA92	4k	SP000011009	PZTA92E6433HTMA1	173
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IPW90R800C3	SP0000413758	IPW90R800C3FKSA1	95	SAB-C161PI-LF3V CA-Step	SP000014360	C161PILF3VCABXUMA1	25	
ISO1H801G	SP000722122	ISO1H801GAUMA1	123	SAB-C161PI-LM HA-Step	SP000014345	C161PILMHABXUMA1	25	
ISO1H811G	SP0000413798	ISO1H811GAUMA1	123	SAB-C161PI-LM3V CA-Step	SP000014365	C161PIL3VCABXUMA1	25	
ISO1H812G	SP0000413800	ISO1H812GAUMA1	123	SAB-C161S-L25M AA-Step	SP000014739	C161SL25MAABXUMA1	25	
ISO1H815G	SP000555576	ISO1H815GAUMA1	123	SAB-C161S-LM3V AA-Step	SP000014946	C161SLM3VAABXUMA1	25	
ISO1H816G	SP000555578	ISO1H816GAUMA1	123	SAB-C164CI-LM3V CA+-Step	SP000103494	C164CILM3VCABXUMA1	26	
ISO1H811T	SP0000876494	ISO1H811TXUMA1	123	SAB-C165-L25F HA-Step	SP000011591	C165L25FHABXUMA1	27	
ISO1H813T	SP0000876504	ISO1H813TXUMA1	123	SAB-C165-L25F HA-Step	SP000011592	C165L25MHABXQMA1	27	
ISP452	SP000219823	ISP452HUMA1	112	SAB-C165-L25M HA-Step	SP000011593	C165L25MHABXUMA1	27	
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ISP752R	SP000219825	ISP752RFUMA1	112	SAB-C165-LF HA-Step	SP000011595	C165LFHABXQMA1	27	
ISP752T	SP000211730	ISP752TFUMA1	112	SAB-C165-LF HA-Step	SP000011596	C165LFHABXUMA1	27	
ISP762T	SP000221228	ISP762TFUMA1	112	SAB-C165-LF3V HA-Step	SP000011597	C165LF3VHABXUMA1	27	
ISP772T	SP000219824	ISP772TFUMA1	112	SAB-C165-LM HA-Step	SP000011598	C165LMHABXQMA1	27	
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ITS410E2 E3043	SP000221227	ITS410E2E3043HKSA1	113	SAB-C167CR-LM HA+-Step	SP000103462	C167CRLMHABXQMA1	28	
ITS4140N	SP000240073	ITS4140NHUMA1	112	SAB-C167CR-LM HA+-Step	SP000103463	C167CRLMHABXUMA1	28	
ITS4141D	SP000221235	ITS4141DBUMA1	112	SAB-C167CS-L40M CA+-Step	SP000103471	C167CSL40MCABXQMA1	28	
ITS4141N	SP000219536	ITS4141NHUMA1	112	SAB-C167CS-L40M CA+-Step	SP000103468	C167CSL40MCABXUMA1	28	
ITS4142N	SP000221218	ITS4142NHUMA1	112	SAB-C167CS-LM CA+-Step	SP000103483	C167CSLMCABXQMA1	29	
ITS428L2	SP000525146	ITS428L2ATMA1	113	SAB-C167CS-LM CA+-Step	SP000103484	C167CSLMCABXUMA1	29	
ITS436L2	SP000221231	ITS436L2HKSA1	113	SAB-C167SR-LM HA+-Step	SP000103456	C167SRLMHABXQMA1	29	
ITS436L2S	SP000221232	ITS436L2SHKSA1	113	SAB-C167SR-LM HA+-Step	SP000103457	C167SRLMHABXUMA1	29	
ITS4880R	SP000219527	ITS4880RCUMA1	116	SAB-C505CA-4EMC CA-Step	SP000106391	C505CA4EMCABXQMA1	20	
ITS5215L	SP000219826	ITS5215LCUMA1	115	SAB-C505CA-4EMC CA-Step	SP000106392	C505CA4EMCABXUMA1	20	
ITS612N1	SP000221233	ITS612N1HKSA1	115	SAE0800	SP000116114	SAE800HKL1	138	
ITS612N1 E3230	SP000221234	ITS612N1E3230HKSA1	115	SAE0800G	SP000697948	SAE800GXLL1	138	
ITS621L1	SP000219533	ITS621L1HKSA1	115	SAF-C161CS-LF CA-Step	SP000106865	C161CSLFCAFXQMA1	24	
ITS621L1 E3220	SP000221224	ITS621L1E3220HKSA1	115	SAF-C161CS-LF CA-Step	SP000106866	C161CSLFCAFXUMA1	24	
ITS640S2	SP000221217	ITS640S2HKSA1	113	SAF-C161K-LM HA-Step	SP000011620	C161KLMHAFXQMA1	24	
ITS640S2S	SP000221225	ITS640S2SHKSA1	113	SAF-C161K-LM3V HA-Step	SP000011621	C161KLM3VHAFXUMA1	24	
ITS711L1	SP000219532	ITS711L1FUMA1	116	SAF-C161O-LM HA-Step	SP000011622	C161OLMHAFXQMA1	24	
ITS716G	SP000219534	ITS716GFUMA1	116	SAF-C161O-LM HA-Step	SP000011623	C161OLMHAFXUMA1	24	
ITS724G	SP000219835	ITS724GFUMA1	116	SAF-C161O-LM3V HA-Step	SP000011624	C161OLM3VHAFXUMA1	24	
				SAF-C161PI-L25F CA-Step	SP000014363	C161PIL25FCAFXUMA1	25	
				SAF-C161PI-L25M CA-Step	SP000014368	C161PIL25MCAFXUMA1	25	
				SAF-C161PI-LF CA-Step	SP000014359	C161PILFCAFXUMA1	25	
				SAF-C161PI-LF3V CA-Step	SP000014361	C161PILF3VCAFXUMA1	25	

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SAF-C161PI-LM CA-Step	SP000014364	C161PILMCAFXUMA1	25	SAF-XC878M-16FFI 3V3 AC-Step	SP000696778	XC878M16FFI3V3ACFXUMA1	14
SAF-C161PI-LM3V CA-Step	SP000014366	C161PILM3VCAFXUMA1	25	SAF-XC878M-16FFI 5V AC-Step	SP000696780	XC878M16FFI5VACFXUMA1	14
SAF-C161S-L25M AA-Step	SP000014947	C161SL25MAAFXUMA1	25	SAF-XC886-8FFI 5V AC-Step	SP000607054	XC8868FFI5VACFXUMA1	15
SAF-C161S-LM3V AA-Step	SP000014948	C161SLM3VAAFXUMA1	25	SAF-XC886C-6FFA 5V AC-Step	SP000607068	XC886C6FFA5VACFXUMA1	15
SAF-C164CI-8E25M DB-Step	SP000104053	C164CI8E25MDFXQMA1	26	SAF-XC886C-6FFI 3V3 AC-Step	SP000655548	XC886C6FFI3V3ACFXUMA1	15
SAF-C164CI-8E25M DB-Step	SP000104054	C164CI8E25MDFXUMA1	26	SAF-XC886C-6FFI 5V AC-Step	SP000607056	XC886C6FFI5VACFXUMA1	15
SAF-C164CI-8E28M DB-Step	SP000106781	C164CI8E28MDFXUMA1	26	SAF-XC886C-8FFI 5V AC-Step	SP000607010	XC886C8FFI5VACFXUMA1	15
SAF-C164CI-8EM CB-Step	SP000103498	C164CI8EMCBFXQMA1	26	SAF-XC886CM-6RFA	SP000254732	XC886CM6RFAFZZZA1	16
SAF-C164CI-8EM CB-Step	SP000103499	C164CI8EMCBFXUMA1	26	SAF-XC886CM-8FFI 5V AC-Step	SP000607014	XC886CM8FFI5VACFXUMA1	17
SAF-C164CI-8EM DB-Step	SP000104055	C164CI8EMDFXQMA1	26	SAF-XC886CM-8RFA AA-Step	SP000235443	XC886CM8RFAAAFZZZA1	17
SAF-C164CI-8EM DB-Step	SP000104056	C164CI8EMDFXUMA1	26	SAF-XC886LM-6FFI 5V AC-Step	SP000607050	XC886LM6FFI5VACFXUMA1	17
SAF-C164CI-8RM CA-Step	SP000957756	C164CI8RMCAFZZZA1	26	SAF-XC886LM-8FFI 5V AC-Step	SP000607052	XC886LM8FFI5VACFXUMA1	17
SAF-C164CI-LM CA+-Step	SP000103495	C164CILMCAFXUMA1	26	SAF-XC888-6FFI 5V AC-Step	SP000607062	XC8886FFI5VACFXUMA1	18
SAF-C164CM-4EF AB-Step	SP000104062	C164CM4EFABFXUMA1	27	SAF-XC888-8FFI 5V AC-Step	SP000646588	XC8888FFI5VACFXUMA1	18
SAF-C165-L25F HA-Step	SP000012870	C165L25FHAFXUMA1	27	SAF-XC888CLM-8FFI 5V AC-Step	SP000253397	XC888CLM8FFI5VACFXUMA1	18
SAF-C165-L25M HA-Step	SP000011629	C165L25FHAFXUMA1	27	SAF-XC888CM-6RFA	SP000257476	XC888CM6RFAFZZZA1	19
SAF-C165-L25M HA-Step	SP000011630	C165L25FHAFXUMA1	27	SAF-XC888CM-8FFI 3V3 AC-Step	SP000607084	XC888CM8FFI3V3ACFXUMA1	19
SAF-C165-LF HA-Step	SP000011631	C165LFHAFXUMA1	27	SAF-XC888CM-8FFI 5V AC-Step	SP000655550	XC888CM8FFI5VACFXUMA1	19
SAF-C165-LF3V HA-Step	SP000011632	C165LF3VHAFXUMA1	27	SAF-XC888CM-8RFA AA-Step	SP000245812	XC888CM8RFAAAFZZZA1	19
SAF-C165-LM HA-Step	SP000011633	C165LMHAFXQMA1	27	SAF-XC888LM-6FFI 3V3 AC-Step	SP000307472	XC888LM6FFI3V3ACFXUMA1	19
SAF-C165-LM HA-Step	SP000011634	C165LMHAFXUMA1	27	SAF-XC888LM-8FFI 5V AC-Step	SP000607064	XC888LM8FFI5VACFXUMA1	19
SAF-C165-LM3V HA-Step	SP000011635	C165LM3VHAFXUMA1	27	SAF-XE160FU-4F66R AA-Step	SP000859274	XE160FU4F66RAAFZZZA1	30
SAF-C167CR-LM HA+-Step	SP000103464	C167CRLMHAFXQLA1	28	SAF-XE160FU-8F66R AA-Step	SP000859278	XE160FU8F66RAAFXUMA1	30
SAF-C167CR-LM HA+-Step	SP000103465	C167CRLMHAFXUMA1	28	SAF-XE161FL-12F80V AA-Step	SP000859298	XE161FL12F80VAAFZZZA1	30
SAF-C167CS-L16M3V CA+-Step	SP000103469	C167CSL16M3VCAFXQLA1	28	SAF-XE161FL-20F80V AA-Step	SP000859290	XE161FL20F80VAAFZZZA1	30
SAF-C167CS-L16M3V CA+-Step	SP000103470	C167CSL16M3VCAFXUMA1	28	SAF-XE161FL-20F80V AA-Step	SP000859292	XE161FL20F80VAAFZZZA1	31
SAF-C167CS-L33M CA+-Step	SP000103485	C167CSL33MCAFXQLA1	28	SAF-XE161FU-4F66V AA-Step	SP000859286	XE161FU4F66VAFZZZA1	31
SAF-C167CS-L33M CA+-Step	SP000103486	C167CSL33MCAFXUMA1	28	SAF-XE161FU-8F66V AA-Step	SP000859288	XE161FU8F66VAFZZZA1	31
SAF-C167CS-LM CA+-Step	SP000103487	C167CSLMCAFXQLA1	28	SAF-XE161HL-12F80V AA-Step	SP000859302	XE161HL12F80VAAFZZZA1	31
SAF-C167CS-LM CA+-Step	SP000103488	C167CSLMCAFXUMA1	28	SAF-XE161HL-20F80V AA-Step	SP000966484	XE161HL20F80VAAFZZZA1	31
SAF-C505CA-4EM CA-Step	SP000106394	C505CA4EMCAFXQMA1	20	SAF-XE161HL-20F80V AA-Step	SP000859294	XE161HL20F80VAAFZZZA1	31
SAF-C505CA-4EM CA-Step	SP000106395	C505CA4EMCAFXUMA1	20	SAF-XE162FL-12F80L AA-Step	SP000859314	XE162FL12F80LAAFQXSA1	32
SAF-C505CA-LM CA-Step	SP000106399	C505CALMCAFXQMA1	20	SAF-XE162FL-20F80L AA-Step	SP000859306	XE162FL20F80LAAFZZZA1	32
SAF-C505CA-LM CA-Step	SP000106399	C505CALMCAFXUMA1	20	SAF-XE162FM-24F80L AA-Step	SP000397634	XE162FM24F80LAAFQXMA1	32
SAF-C515C-8EM CA-Step	SP000106398	C515C8EMCAFXQMA1	20	SAF-XE162FM-72F80L AA-Step	SP000397630	XE162FM72F80LAAFQXMA1	32
SAF-C515C-8EM CA-Step	SP000106399	C515C8EMCAFXUMA1	20	SAF-XE162FN-16F80L AA-Step	SP000518060	XE162FN16F80LAAFZZZA1	32
SAF-TC1130-L100EB-G BB-Step	SP000743586	TC1130L100EBGBBFXUMA1	57	SAF-XE162FN-24F80L AA-Step	SP000518062	XE162FN24F80LAAFZZZA1	32
SAF-TC1130-L150EB-G BB-Step	SP000744402	TC1130L150EBGBBFQXSA1	57	SAF-XE162FN-40F80L AA-Step	SP000726684	XE162FN40F80LAAFZZZA1	33
SAF-TC1130-L150EB-G BB-Step	SP000743584	TC1130L150EBGBBFXUMA1	57	SAF-XE162HL-12F80L AA-Step	SP000859318	XE162HL12F80LAAFZZZA1	33
SAF-TC1167-128F133HL AD-Step	SP000674708	TC1167128F133HLADFUMA1	57	SAF-XE162HL-20F80L AA-Step	SP000859310	XE162HL20F80LAAFQXSA1	33
SAF-XC161CJ-16F40F BB-Step	SP000280516	XC161CJ16F40FBFBFXQMA1	21	SAF-XE162HM-72F80L AA-Step	SP000397638	XE162HM72F80LAAFQXMA1	33
SAF-XC161CJ-16F40F BB-Step	SP000224537	XC161CJ16F40FBFBFXUMA1	21	SAF-XE162HN-16F80L AA-Step	SP000518066	XE162HN16F80LAAFZZZA1	33
SAF-XC161CS-32F40F BB-A-Step	SP000224542	XC161CS32F40FBFAFXUMA1	21	SAF-XE162HN-24F80L AA-Step	SP000518068	XE162HN24F80LAAFQXMA1	33
SAF-XC164CM-16F40F BA-Step	SP000258386	XC164CM16F40FBFAFXQMA1	22	SAF-XE164F-24F66L AC-Step	SP000363794	XE164F24F66LACFXQMA1	34
SAF-XC164CM-8F40F AA-Step	SP000230865	XC164CM8F40FAAFXUMA1	21	SAF-XE164F-24F66L AC-Step	SP000363793	XE164F24F66LACFXQMA1	34
SAF-XC164CM-8F40F AA-Step	SP000065635	XC164CM8F40FAAFXUMA1	21	SAF-XE164F-48F66L AC-Step	SP000363785	XE164F48F66LACFXQMA1	34
SAF-XC164CS-16F40F BB-Step	SP000224553	XC164CS16F40FBFBFXQMA1	22	SAF-XE164F-48F66L AC-Step	SP000363784	XE164F48F66LACFXQMA1	34
SAF-XC164CS-16F40F BB-Step	SP000224552	XC164CS16F40FBFBFXUMA1	22	SAF-XE164F-72F66L AC-Step	SP000363775	XE164F72F66LACFXQMA1	34
SAF-XC164CS-32F40F BB-A-Step	SP000224593	XC164CS32F40FBFAFXQMA1	22	SAF-XE164F-96F66L AC-Step	SP000363762	XE164F96F66LACFXQMA1	34
SAF-XC164CS-32F40F BB-A-Step	SP000224592	XC164CS32F40FBFAFXUMA1	22	SAF-XE164F-96F66L AC-Step	SP000363761	XE164F96F66LACFXQMA1	34
SAF-XC167CI-16F40F BB-Step	SP000224690	XC167CI16F40FBFBFXQMA1	23	SAF-XE164F-96F80L AC-Step	SP000450812	XE164F96F80LACFXQMA1	34
SAF-XC167CI-16F40F BB-Step	SP000224689	XC167CI16F40FBFBFXUMA1	23	SAF-XE164FM-24F80L AA-Step	SP000397562	XE164FM24F80LAAFQXMA1	34
SAF-XC167CI-32F40F BB-A-Step	SP000224702	XC167CI32F40FBFAFXQMA1	23	SAF-XE164FM-48F80L AA-Step	SP000397560	XE164FM48F80LAAFZZZA1	34
SAF-XC2336A-56F80L AA-Step	SP000722428	XC2336A56F80LAAFQXMA1	51	SAF-XE164FM-72F80L AA-Step	SP000397558	XE164FM72F80LAAFQXMA1	34
SAF-XC2786X-96F66L AC-Step	SP000369364	XC2786X96F66LACKXUMA1	56	SAF-XE164FN-16F80L AA-Step	SP000518034	XE164FN16F80LAAFZZZA1	35
SAF-XC822-1FRA AA-Step	SP000773390	XC8221FRAAFXUMA1	9	SAF-XE164FN-40F80L AA-Step	SP000518038	XE164FN40F80LAAFZZZA1	35
SAF-XC822-1FRI AA-Step	SP000795354	XC8221FRIAFXUMA1	9	SAF-XE164G-24F66L AC-Step	SP000363797	XE164G24F66LACFXQMA1	36
SAF-XC822M-1FRI AA-Step	SP000771768	XC822M1FRIAFXUMA1	9	SAF-XE164G-24F66L AC-Step	SP000363795	XE164G24F66LACFXQMA1	36
SAF-XC822MT-1FRA AA-Step	SP000873396	XC822MT1FRAAFXUMA1	9	SAF-XE164G-48F66L AC-Step	SP000363787	XE164G48F66LACFXQMA1	36
SAF-XC822MT-1FRI AA-Step	SP000795358	XC822MT1FRIAFXUMA1	9	SAF-XE164G-96F66L AC-Step	SP000363764	XE164G96F66LACFXQMA1	36
SAF-XC822T-0FRI AA-Step	SP000795350	XC822T0FRIAFXUMA1	9	SAF-XE164GM-24F80L AA-Step	SP000397568	XE164GM24F80LAAFQXMA1	36
SAF-XC822T-1FRI AA-Step	SP000797572	XC822T1FRIAFXUMA1	9	SAF-XE164GM-72F80L AA-Step	SP000397564	XE164GM72F80LAAFQXMA1	36
SAF-XC824M-1FGI AA-Step	SP000771770	XC824M1FGIAAFXUMA1	9	SAF-XE164H-2F66L AC-Step	SP000363780	XE164H2F66LACFXQMA1	37
SAF-XC824MT-1FGI AA-Step	SP000795362	XC824MT1FGIAAFXUMA1	9	SAF-XE164H-96F66L AC-Step	SP000363766	XE164H96F66LACFXQMA1	37
SAF-XC835MT-2FGI AB-Step	SP000843552	XC835MT2FGIABFXUMA1	10	SAF-XE164H-96F66L AC-Step	SP000363750	XE164H96F66LACFXQMA1	37
SAF-XC836-2FRI AB-Step	SP000843562	XC8362FRIABFXUMA1	10	SAF-XE164HM-72F80L AA-Step	SP000397570	XE164HM72F80LAAFQXMA1	37
SAF-XC836M-1FRI AB-Step	SP000843556	XC836M1FRIABFXUMA1	10	SAF-XE164HN-16F80L AA-Step	SP000518046	XE164HN16F80LAAFZZZA1	37
SAF-XC836M-2FRI AB-Step	SP000843558	XC836M2FRIABFXUMA1	10	SAF-XE164HN-40F80L AA-Step	SP000518048	XE164HN40F80LAAFQXMA1	37
SAF-XC836MT-2FRI AB-Step	SP000843560	XC836MT2FRIABFXUMA1	10	SAF-XE164K-48F66L AC-Step	SP000363791	XE164K48F66LACFXQMA1	38
SAF-XC836T-2FRI AB-Step	SP000843554	XC836T2FRIABFXUMA1	10	SAF-XE164K-96F66L AC-Step	SP000363771	XE164K96F66LACFXQMA1	38
SAF-XC866-1FRI AB-Step	SP000244527	XC8661FRIABFXUMA1	11	SAF-XE164K-96F66L AC-Step	SP000363770	XE164K96F66LACFXQMA1	38
SAF-XC866-2FRA BE-Step	SP000281796	XC8662FRABFXUMA1	11	SAF-XE164KM-48F80L AA-Step	SP000397578	XE164KM48F80LAAFQXMA1	38
SAF-XC866-2FRI BE-Step	SP000257777	XC8662FRIABFXUMA1	11	SAF-XE164KM-72F80L AA-Step	SP000397576	XE164KM72F80LAAFQXMA1	38
SAF-XC866-2RRA AB-Step	SP000232712	XC8664RRAABFZZZA1	12	SAF-XE164KN-16F80L AA-Step	SP000518054	XE164KN16F80LAAFZZZA1	38
SAF-XC866-4FRA BE-Step	SP000281799	XC8664FRABFXUMA1	11	SAF-XE167F-48F66L AC-Step	SP000363822	XE167F48F66LACFXQMA1	39
SAF-XC866-4FRI BE-Step	SP000245780	XC8664FRIABFXUMA1	12	SAF-XE167F-72F66L AC-Step	SP000363813	XE167F72F66LACFXQMA1	39
SAF-XC866-4RRA AB-Step	SP000232710	XC8664RRAABFZZZA1	12	SAF-XE167F-96F66L AC-Step	SP000363803	XE167F96F66LACFXQMA1	39
SAF-XC878-13FVA 5V AC-Step	SP000756808	XC87813FVA5VACFXUMA1	14	SAF-XE167F-96F66L AC-Step	SP000363802	XE167F96F66LACFXQMA1	39
SAF-XC878-16FFI 5V AC-Step	SP000696772	XC87816FFI5VACFXUMA1	14	SAF-XE167F-96F80L AC-Step	SP000450816	XE167F96F80LACFXQMA1	39
SAF-XC878CM-16FFA 5V AC-Step	SP000772210	XC878CM16FFA5VACFXUMA1	14	SAF-XE167FH-136F100L AB-Step	SP000874840	XE167FH136F100LABFZZZA1	39
SAF-XC878CM-16FFI 3V3 AC-Step	SP000696786	XC878CM16FFI3V3ACFXUMA1	14	SAF-XE167FH-200F100L AB-Step	SP000845646	XE167FH200F100LABFQXMA1	39
SAF-XC878CM-16FFI 5V AC-Step	SP000679860	XC878CM16FFI5VACFXUMA1	14	SAF-XE167FM-72F80L AA-Step	SP000397582	XE167FM72F80LAAFQXMA1	40
SAF-XC878M-13FFI 3V3 AC-Step	SP000696774	XC878M13FFI3V3ACFXUMA1	14	SAF-XE167G-48F66L AC-Step	SP000363824	XE167G48F66LACFXQMA1	40
				SAF-XE167G-72F66L AC-Step	SP000363815	XE167G72F66LACFXQMA1	40



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SAF-XE167H-48F66L AC-Step	SP000363826	XE167H48F66LACFXQMA1	41	SAK-XC2267M-104F80L AC-Step	SP000398034	XC2267M104F80LAACKXUMA1	47
SAF-XE167H-96F66L AC-Step	SP000363806	XE167H96F66LACFXQMA1	41	SAK-XC2267M-72F80L AC-Step	SP000455314	XC2267M72F80LAACKXUMA1	47
SAF-XE167HM-72F80L AA-Step	SP000397594	XE167HM72F80LAAFXQMA1	41	SAK-XC2268-136F128L AA-Step	SP000893180	XC2268136F128LAACKXUMA1	47
SAF-XE167K-48F66L AC-Step	SP000363828	XE167K48F66LACFXQMA1	42	SAK-XC2268N-40F80L AA-Step	SP000720866	XC2268N40F80LAACKXUMA1	47
SAF-XE167K-72F66L AC-Step	SP000363819	XE167K72F66LACFXQMA1	42	SAK-XC2269-136F128L AA-Step	SP000858186	XC2269136F128LAACKXUMA1	47
SAF-XE167K-96F66L AC-Step	SP000363809	XE167K96F66LACFXQMA1	42	SAK-XC2287-96F66L AC-Step	SP000432418	XC228796F66LACKXUMA1	48
SAF-XE169FH-136F100L AB-Step	SP000874844	XE169FH136F100LABFZZZA1	42	SAK-XC2287-96F80L AC-Step	SP000300037	XC228796F80LACKXUMA1	48
SAF-XE169FH-200F100L AB-Step	SP000874838	XE169FH200F100LABFZZZA1	42	SAK-XC2287M-104F80L AA-Step	SP000436560	XC2287M104F80LAACKXUMA1	48
SAH-XC2237M-104F80L AA-Step	SP000720382	XC2237M104F80LAAHXUMA1	44	SAK-XC2287M-72F80L AA-Step	SP000455428	XC2287M72F80LAACKXUMA1	48
SAH-XC2336B-40F80L AA-Step	SP000847032	XC2336B40F80LAAHXUMA1	51	SAK-XC2288H-200F100L AB-Step	SP000844806	XC2288H200F100LABKXUMA1	49
SAH-XC2361B-40F66L AA-Step	SP000365913	XC2361B40F66LAAHXUMA1	52	SAK-XC2289H-200F100L AB-Step	SP0007700616	XC2289H200F100LABKXUMA1	49
SAH-XC2361B-40F80L AA-Step	SP000524448	XC2361B40F80LAAHXUMA1	52	SAK-XC2289-136F128L AB-Step	SP000856172	XC2289136F128LAACKXUMA1	49
SAK-C161CS-LF CA-Step	SP000106868	C161CSLFCAXXQMA1	24	SAK-XC2298H-200F100L AB-Step	SP000844810	XC2298H200F100LABKXUMA1	49
SAK-C161JCL-LF CA-Step	SP000106870	C161JCLFCAXXQMA1	24	SAK-XC2299H-200F100L AB-Step	SP000761326	XC2299H200F100LABKXUMA1	49
SAK-C164CI-8E25M DB-Step	SP000104057	C164CI8E25MDBKXQMA1	26	SAK-XC2310S-8F40R AA-Step	SP000870600	XC2310S8F40RAACKXUMA1	50
SAK-C164CI-8E25M DB-Step	SP000104058	C164CI8E25MDBKXUMA1	26	SAK-XC2321D-20F66V AA-Step	SP000846748	XC2321D20F66RVAACKXUMA1	50
SAK-C164CI-8EM CB-Step	SP000103500	C164CI8EMCBKXQMA1	26	SAK-XC2331D-20F66L AA-Step	SP000870660	XC2331D20F66LVAACKXUMA1	50
SAK-C164CI-8EM CB-Step	SP000103501	C164CI8EMCBKXUMA1	26	SAK-XC2336B-40F20L AA-Step	SP000559070	XC2336B40F20LAACKXUMA1	51
SAK-C164CI-8EM DB-Step	SP000104059	C164CI8EMDBKXQMA1	26	SAK-XC2336B-40F66L AA-Step	SP000541986	XC2336B40F66LAACKXUMA1	51
SAK-C164CI-8EM DB-Step	SP000104060	C164CI8EMDBKXUMA1	26	SAK-XC2336B-40F80L AA-Step	SP000541980	XC2336B40F80LAACKXUMA1	51
SAK-C164CI-L25M CA+-Step	SP000103496	C164CIL25MCAKXUMA1	26	SAK-XC2364A-104F80L AA-Step	SP000526792	XC2364A104F80LAACKXUMA1	52
SAK-C164CI-LM CA+-Step	SP000103497	C164CILMCAKXUMA1	26	SAK-XC2364B-40F80L AA-Step	SP000541956	XC2364B40F80LAACKXUMA1	52
SAK-C164CM-4EF AB-Step	SP000104063	C164CM4EFABKXUMA1	27	SAK-XC2365A-104F80L AA-Step	SP000448776	XC2365A104F80LAACKXUMA1	53
SAK-C167CR-L33M HA+-Step	SP000103460	C167CRL33MHAKXQMA1	28	SAK-XC2365B-40F80L AA-Step	SP000541896	XC2365B40F80LAACKXUMA1	53
SAK-C167CR-L33M HA+-Step	SP000103461	C167CRL33MHAKXUMA1	28	SAK-XC2387A-104F80L AA-Step	SP000448780	XC2387A104F80LAACKXUMA1	53
SAK-C167CR-LM HA+-Step	SP000103466	C167CRLMHAKXQMA1	28	SAK-XC2387C-136F100L AB-Step	SP000722460	XC2387C136F100LABKXUMA1	53
SAK-C167CR-LM HA+-Step	SP000103467	C167CRLMHAKXUMA1	28	SAK-XC2723X-20F66V AA-Step	SP000847088	XC2723X20F66VAACKXUMA1	54
SAK-C167CS-L33M CA+-Step	SP000103489	C167CSL33MCAKXUMA1	28	SAK-XC2733X-20F66L AA-Step	SP000847086	XC2733X20F66LAACKXUMA1	54
SAK-C167CS-L40M CA+-Step	SP000103491	C167CSL40MCAKXQMA1	29	SAK-XC2734X-40F80L AA-Step	SP000627030	XC2734X40F80LAACKXUMA1	54
SAK-C167CS-LM CA+-Step	SP000103492	C167CSLMLCAKXQMA1	28	SAK-XC2764X-40F80L AA-Step	SP000627028	XC2764X40F80LAACKXUMA1	55
SAK-C167CS-LM CA+-Step	SP000103493	C167CSLMLCAKXUMA1	28	SAK-XC2765X-104F80L AA-Step	SP000443762	XC2765X104F80LAACKXUMA1	55
SAK-C167SR-LM HA+-Step	SP000103458	C167SRLMHAKXQMA1	29	SAK-XC2765X-72F80L AA-Step	SP000448084	XC2765X72F80LAACKXUMA1	55
SAK-C167SR-LM HA+-Step	SP000103459	C167SRLMHAKXUMA1	29	SAK-XC2768X-136F128L AA-Step	SP000886694	XC2768X136F128LAACKXUMA1	55
SAK-C505CA-4EM CA-Step	SP000106396	C505CA4EMCAKXQMA1	20	SAK-XC2785X-104F80L AA-Step	SP000439800	XC2785X104F80LAACKXUMA1	56
SAK-C505CA-4EM CA-Step	SP000106397	C505CA4EMCAKXUMA1	20	SAK-XC2787X-200F100L AB-Step	SP000804404	XC2787X200F100LABKXUMA1	56
SAK-TC1197-256F180E AC-Step	SP000627556	TC1197256F180EACKXUMA1	57	SAK-XC2788X-136F128L AA-Step	SP000886706	XC2788X136F128LAACKXUMA1	56
SAK-TC1197-512F180E AC-Step	SP000627562	TC1197512F180EACKXUMA1	57	SAK-XC2797X-200F100L AB-Step	SP000804406	XC2797X200F100LABKXUMA1	56
SAK-TC1736-128F80HL AC-Step	SP000366518	TC1736128F80HLAACKXQMA1	58	SAK-XC822-1FRA AA-Step	SP000873388	XC8221FRAAACKXUMA1	9
SAK-TC1766-192F80HL BD-Step	SP000771726	TC1766192F80HLBDBKXUMA2	58	SAK-XC822MT-0FRA AA-Step	SP000893936	XC822MT0FRAAACKXUMA1	9
SAK-TC1767-256F133HL AD-Step	SP000458056	TC1767256F133HLADKXUMA1	58	SAK-XC822MT-1FRA AA-Step	SP000877976	XC822MT1FRAAACKXUMA1	9
SAK-TC1767-256F80HL AD-Step	SP000424086	TC1767256F80HLADKXUMA1	58	SAK-XC824M-1F80L AA-Step	SP000778646	XC824M1F80LAACKXUMA1	9
SAK-TC1782-320F180HR BA-Step	SP000862218	TC1782320F180HRBAKZZZA1	59	SAK-XC836MT-1FRA AB-Step	SP000848856	XC836MT1FRAABFXUMA1	10
SAK-TC1793F-512F270EB AB-Step	SP000887646	TC1793F512F270EBABKXUMA1	59	SAK-XC836MT-2FRA AB-Step	SP000847972	XC836MT2FRAABFXUMA1	10
SAK-TC1796-256F150E BC-Step	SP000097527	TC1796256F150EBCKXUMA1	59	SAK-XC864L-1FRI 5V AA-Step	SP000449002	XC864L1FR15VAACKXUMA1	11
SAK-TC1796-256F150E BE-Step	SP000438972	TC1796256F150EBEKXUMA1	59	SAK-XC866-1FRA AB-Step	SP000235420	XC8661FRAABKXUMA1	11
SAK-TC1797-384F150E AC-Step	SP000608762	TC1797384F150EACKXUMA1	60	SAK-XC866-1FRI AB-Step	SP000244528	XC8661FRIABKXUMA1	11
SAK-TC1797-512F180E AC-Step	SP000478918	TC1797512F180EACKXUMA1	60	SAK-XC866-2FRA BE-Step	SP000272971	XC8662FRABEKXUMA1	11
SAK-XC161CJ-16F40F BB-Step	SP000224540	XC161CJ16F40FBBKXUMA1	21	SAK-XC866-2FRI BE-Step	SP000245783	XC8662FRIBEKXUMA1	11
SAK-XC161CS-32F40F BB-A-Step	SP000224544	XC161CS32F40FBBKXUMA1	21	SAK-XC866-2RRA AB-Step	SP000232708	XC8662RRAABKZZZA1	12
SAK-XC164CM-16F20F BA-Step	SP000245661	XC164CM16F20FBAKXUMA1	21	SAK-XC866-4FRA BE-Step	SP000245770	XC8664FRABEKXUMA1	12
SAK-XC164CM-16F40F BA-Step	SP000258408	XC164CM16F40FBAKXQMA1	22	SAK-XC866-4FRI BE-Step	SP000245786	XC8664FRIBEKXUMA1	12
SAK-XC164CM-16F40F BA-Step	SP000258407	XC164CM16F40FBAKXUMA1	22	SAK-XC866-4RRA AB-Step	SP000232706	XC8664RRAABKZZZA1	12
SAK-XC164CM-8F20F AA-Step	SP000085643	XC164CM8F20FAAKXUMA1	21	SAK-XC866L-1FRA AB-Step	SP000235421	XC866L1FRAABKXUMA1	12
SAK-XC164CM-8F40F AA-Step	SP000203869	XC164CM8F40FAAKXQMA1	21	SAK-XC866L-4FRA 3V BE-Step	SP000442054	XC866L4FRA3VBEKXUMA1	13
SAK-XC164CM-8F40F AA-Step	SP000085644	XC164CM8F40FAAKXUMA1	21	SAK-XC866L-4FRA BE-Step	SP000245771	XC866L4FRABEKXUMA1	12
SAK-XC164CS-16F40F BB-Step	SP000224561	XC164CS16F40FBBKXQMA1	22	SAK-XC866L-4FRI BE-Step	SP000245787	XC866L4FRIBEKXUMA1	13
SAK-XC164CS-16F40F BB-Step	SP000224560	XC164CS16F40FBBKXUMA1	22	SAK-XC874-13FVA 5V AC-Step	SP000858084	XC87413FVA5VACKXUMA1	13
SAK-XC164CS-32F20F BB-A-Step	SP000224594	XC164CS32F20FBBKXUMA1	22	SAK-XC874-16FVA 5V AC-Step	SP000858089	XC87416FVA5VACKXUMA1	13
SAK-XC164CS-32F40F BB-A-Step	SP000224597	XC164CS32F40FBBKXQMA1	22	SAK-XC874CLM-16FVA5V AC-Step	SP000858092	XC874CLM16FVA5VACKXUMA1	13
SAK-XC164CS-32F40F BB-A-Step	SP000224596	XC164CS32F40FBBKXUMA1	22	SAK-XC874CM-13FVA 5V AC-Step	SP000793736	XC874CM13FVA5VACKXUMA1	13
SAK-XC167CI-16F40F BB-Step	SP000224695	XC167CI16F40FBBKXQMA1	23	SAK-XC874CM-16FVA 5V AC-Step	SP000858090	XC874CM16FVA5VACKXUMA1	13
SAK-XC167CI-16F40F BB-Step	SP000224694	XC167CI16F40FBBKXUMA1	23	SAK-XC874LM-13FVA 5V AC-Step	SP000858082	XC874LM13FVA5VACKXUMA1	13
SAK-XC167CI-32F40F BB-A-Step	SP000224707	XC167CI32F40FBBKXQMA1	23	SAK-XC874LM-16FVA 5V AC-Step	SP000858086	XC874LM16FVA5VACKXUMA1	13
SAK-XC167CI-32F40F BB-A-Step	SP000224706	XC167CI32F40FBBKXUMA1	23	SAK-XC878-13FVA 5V AC-Step	SP000847062	XC87813FVA5VACKXUMA1	14
SAK-XC2060-96F66L AC-Step	SP000919142	XC206096F66LACKXUMA1	45	SAK-XC878-16FVA 5V AC-Step	SP000847066	XC87816FVA5VACKXUMA1	14
SAK-XC2060-96F80L AC-Step	SP000909494	XC206096F80LACKXUMA1	45	SAK-XC878CLM-16FVA 5V AC-Step	SP000761974	XC878CLM16FVA5VACKXUMA1	14
SAK-XC2060N-40F80L AA-Step	SP000905002	XC2060N40F80LAACKXUMA1	45	SAK-XC878CM-16FFA 5V AC-Step	SP000847064	XC878CM16FFA5VACKXUMA1	14
SAK-XC2080-96F66L AC-Step	SP000919146	XC208096F66LACKXUMA1	48	SAK-XC878LM-16FVA 5V AC-Step	SP000841190	XC878LM16FVA5VACKXUMA1	14
SAK-XC2080-96F80L AC-Step	SP000909492	XC208096F80LACKXUMA1	48	SAK-XC886-6FFA 5V AC-Step	SP000210978	XC8866FFA5VACKXUMA1	15
SAK-XC2080H-200F100L AB-Step	SP000905006	XC2080H200F100LABKXUMA1	48	SAK-XC886-6FFI 5V AC-Step	SP000607948	XC8866FFI5VACKXUMA1	15
SAK-XC2210U-4F0R AA-Step	SP000858094	XC2210U4F0RAAKZZZA1	43	SAK-XC886-8FFI 5V AC-Step	SP000607058	XC8868FFI5VACKXUMA1	15
SAK-XC2220U-8F40V AA-Step	SP000846742	XC2220U8F40VAACKXUMA1	43	SAK-XC886C-6FFA 5V AC-Step	SP000607004	XC886C6FFA5VACKXUMA1	15
SAK-XC2224L-20F66V AA-Step	SP000846740	XC2224L20F66VAACKXUMA1	43	SAK-XC886C-8FFA 5V AC-Step	SP000606668	XC886C8FFA5VACKXUMA1	15
SAK-XC2234L-20F66L AA-Step	SP000846738	XC2234L20F66LAACKXUMA1	44	SAK-XC886CLM-8FFA 5V AC-Step	SP000606750	XC886CLM8FFA5VACKXUMA1	16
SAK-XC2236N-40F80L AA-Step	SP000605510	XC2236N40F80LAACKXUMA1	44	SAK-XC886CM-8RFA 5V AA-Step	SP000245804	XC886CM8RFA5VAAKZZZA1	16
SAK-XC2238N-24F40L AA-Step	SP000720844	XC2238N24F40LAACKXUMA1	44	SAK-XC886CM-8FFA 3V3 AC-Step	SP000607082	XC886CM8FFA3V3ACKXUMA1	16
SAK-XC2238N-40F80L AA-Step	SP000691244	XC2238N40F80LAACKXUMA1	44	SAK-XC886CM-8FFA 5V AC-Step	SP000606964	XC886CM8FFA5VACKXUMA1	17
SAK-XC2263N-24F40L AA-Step	SP000527764	XC2263N24F40LAACKXUMA1	45	SAK-XC886CM-8RFA 5V AA-Step	SP000245801	XC886CM8RFA5VAAKZZZA1	17
SAK-XC2263N-40F40L AA-Step	SP000527768	XC2263N40F40LAACKXUMA1	45	SAK-XC886LM-8FFA 5V AC-Step	SP000606754	XC886LM8FFA5VACKXUMA1	17
SAK-XC2264-56F66L AC-Step	SP000300114	XC226456F66LACKXUMA1	46	SAK-XC886LM-8FFA 5V AC-Step	SP000606752	XC886LM8FFA5VACKXUMA1	17
SAK-XC2265N-40F80L AA-Step	SP000527774	XC2265N40F80LAACKXUMA1	46	SAK-XC888C-8FFA 5V AC-Step	SP000606958	XC888C8FFA5VACKXUMA1	18
SAK-XC2267-56F66L AC-Step	SP000300104	XC226756F66LACKXUMA1	46	SAK-XC888CLM-8FFA 5V AC-Step	SP000606756	XC888CLM8FFA5VACKXUMA1	18
SAK-XC2267-96F66L AC-Step	SP000250942	XC226796F66LACKXUMA1	46	SAK-XC888CM-8RFA 5V AA-Step	SP000257472	XC888CM8RFA5VAAKZZZA1	19

# Summary of Types

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SAK-XC888CM-8FFA 5V AC-Step	SP000607006	XC888CM8FFA5VACKXUMA1	19	SKP02N120	SP000683134	SKP02N120XKSA1	101
SAK-XC888LM-6FFA 5V AC-Step	SP000210994	XC888LM6FFA5VACKXUMA1	19	SKP02N60	SP000683136	SKP02N60XKSA1	101
SAK-XE160FU-4F40R AA-Step	SP000859272	XE160FU4F40RAAKZZZA1	30	SKP04N60	SP000683138	SKP04N60XKSA1	101
SAK-XE160FU-8F40R AA-Step	SP000859276	XE160FU8F40RAAKXUMA1	30	SKP06N60	SP000683140	SKP06N60XKSA1	101
SAK-XE161FL-12F66V AA-Step	SP000859296	XE161FL12F66VAAKZZZA1	30	SKP10N60A	SP000683144	SKP10N60AXKSA1	101
SAK-XE161FL-20F66V AA-Step	SP000859288	XE161FL20F66VAAKXUMA1	30	SKP15N60	SP000683146	SKP15N60XKSA1	101
SAK-XE161FU-4F40V AA-Step	SP000859280	XE161FU4F40VAAKZZZA1	31	SKW07N120	SP000012569	SKW07N120FKSA1	101
SAK-XE161FU-8F40V AA-Step	SP000859284	XE161FU8F40VAAKXUMA1	31	SKW15N120	SP000012570	SKW15N120FKSA1	101
SAK-XE161HL-12F66V AA-Step	SP000859300	XE161HL12F66VAAKZZZA1	31	SKW15N60	SP000012482	SKW15N60FKSA1	101
SAK-XE161HL-20F66V AA-Step	SP000859292	XE161HL20F66VAAKZZZA1	31	SKW20N60	SP000012483	SKW20N60FKSA1	101
SAK-XE162FL-12F66L AA-Step	SP000859312	XE162FL12F66LAAKZZZA1	32	SKW20N60HS	SP000013772	SKW20N60HSFKSA1	101
SAK-XE162FL-20F66L AA-Step	SP000859304	XE162FL20F66LAAKXUMA1	32	SKW25N120	SP000012571	SKW25N120FKSA1	101
SAK-XE162FN-40F80L AA-Step	SP000634794	XE162FN40F80LAAKXUMA1	33	SKW30N60	SP000012484	SKW30N60FKSA1	101
SAK-XE162HL-12F66L AA-Step	SP000859316	XE162HL12F66LAAKZZZA1	33	SKW30N60HS	SP000013744	SKW30N60HSFKSA1	102
SAK-XE162HL-20F66L AA-Step	SP000859308	XE162HL20F66LAAKZZZA1	33	SLE 5518 M3.2	SP000308576	SLE5518M32ZZZA1	195
SAK-XE162HN-24F80L AA-Step	SP000692014	XE162HN24F80LAAKXUMA1	33	SLE 5518 MFC3.1	SP000366388	SLE5518MFC31XHSA1	195
SAK-XE162HN-40F80L AA-Step	SP000692016	XE162HN40F80LAAKXUMA1	33	SLE 5528 M3.2	SP000268874	SLE5528M32XHSA2	195
SAK-XE164FM-48F80L AA-Step	SP000628602	XE164FM48F80LAAKXUMA1	34	SLE 5528 MFC3.1	SP000269210	SLE5528MFC31XHSA2	195
SAK-XE164FM-72F80L AA-Step	SP000628606	XE164FM72F80LAAKXUMA1	35	SLE 5532 M3.2	SP000232944	SLE5532M32FHS1	195
SAK-XE164FN-40F80L AA-Step	SP000634792	XE164FN40F80LAAKXUMA1	35	SLE 5532 MFC3.1	SP000237782	SLE5532MFC31XHSA1	195
SAK-XE164GM-72F80L AA-Step	SP000628618	XE164GM72F80LAAKXUMA1	36	SLE 5538 M3.2	SP000308579	SLE5538M32ZZZA1	195
SAK-XE167FH-200F100L AB-Step	SP000845650	XE167FH200F100LABKXUMA1	39	SLE 5538 MFC3.1	SP000308580	SLE5538MFC31ZZZA1	195
SAK-XE167FM-72F80L AA-Step	SP000628636	XE167FM72F80LAAKXUMA1	40	SLE 5542 M3.2	SP000232943	SLE5542M32XHSA2	195
SAK-XE167HM-72F80L AA-Step	SP000628646	XE167HM72F80LAAKXUMA1	41	SLE 5542 MFC3.1	SP000232942	SLE5542MFC31XHSA6	195
SAK167CS-L40M CA+-Step	SP000103490	C167CSL40MCAKXQLA1	29	SLE 5552 M3.2	SP000232946	SLE5552M32XHSA1	195
SAL-XC866-4FRA 3V BE-Step	SP000908370	XC8664FRA3VBELXUMA1	12	SLE 66R01P NB	SP000605632	SLE66R01PNB1SA1	196
SAL-XC866-4FRA 5V BE-Step	SP000876776	XC8664FRA5VBELXUMA1	12	SLE 66R01PN NB	SP000953914	SLE66R01PNNB1SA2	196
SAL-XC866L-2FRA 3V BE-Step	SP000915406	XC866L2FRA3VBELXUMA1	12	SLE 66R04P MCC2	SP000410322	SLE66R04PMCC2ZZZA1	197
SAL-XC866L-2FRA 5V BE-Step	SP000914682	XC866L2FRA5VBELXUMA1	12	SLE 66R04P NB	SP000410318	SLE66R04PNBZZZA1	197
SAL-XC866L-4FRA 3V BE-Step	SP000908378	XC866L4FRA3VBELXUMA1	13	SLE 66R04S MCC2	SP000410348	SLE66R04SMCC2ZZZA1	197
SAL-XC866L-4FRA 5V BE-Step	SP000876778	XC866L4FRA5VBELXUMA1	13	SLE 66R04S MCC8	SP000714800	SLE66R04SMCC8ZZZA1	197
SAL-XC886CLM-8FFA 5V AC-Step	SP000829526	XC886CLM8FFA5VACLXUMA1	16	SLE 66R04S NB	SP000410344	SLE66R04SNBZZZA1	197
SAL-XC886CM-8FFA AC-Step	SP000844270	XC886CM8FFA5VACLXUMA1	17	SLE 66R16P MCC2	SP000410330	SLE66R16PMCC2ZZZA1	197
SAL-XC886LM-8FFA 5V AC-Step	SP000844272	XC886LM8FFA5VACLXUMA1	17	SLE 66R16P MCC8	SP000493784	SLE66R16PMCC8ZZZA1	197
SAX-XC878CLM-16FFA5V AC-Step	SP000608972	XC878CLM16FFA5VACXUMA1	14	SLE 66R16P NB	SP000410326	SLE66R16PNBZZZA1	197
SAX-XC878CM-16FFA 5V AC-Step	SP000409562	XC878CM16FFA5VACXUMA1	14	SLE 66R16S MCC2	SP000410360	SLE66R16SMCC2XHSA1	197
SAX-XC878LM-13FFA 5V AC-Step	SP000447320	XC878LM13FFA5VACXUMA1	14	SLE 66R16S MCC8	SP000671906	SLE66R16SMCC8XHSA1	197
SGB02N120	SP000012558	SGB02N120ATMA1	100	SLE 66R16S NB	SP000410352	SLE66R16SNBZZZA1	197
SGB02N60	SP000011978	SGB02N60ATMA1	100	SLE 66R32P MCC2	SP000410336	SLE66R32PNBZZZA1	197
SGB06N60	SP000011980	SGB06N60ATMA1	100	SLE 66R32P MCC8	SP000953284	SLE66R32PMCC8XHSA1	197
SGB07N120	SP000012559	SGB07N120ATMA1	100	SLE 66R32P NB	SP000410340	SLE66R32PMCC2ZZZA1	197
SGB10N60A	SP000013790	SGB10N60AATMA1	100	SLE 66R32S MCC2	SP000410368	SLE66R32SMCC2ZZZA1	197
SGB15N120	SP000012560	SGB15N120ATMA1	100	SLE 66R32S MCC8	SP000714848	SLE66R32SMCC8ZZZA1	197
SGB15N60	SP000011983	SGB15N60ATMA1	100	SLE 66R32S NB	SP000410364	SLE66R32SNBZZZA1	197
SGB15N60HS	SP000267909	SGB15N60HSATMA2	102	SLF 9620 M5.1	SP000621032	SLF9620M51ZZZA1	197
SGB20N60	SP000011984	SGB20N60ATMA1	100	SLF 9620 NB	SP000630494	SLF9620NBZZZA1	197
SGB30N60	SP000011985	SGB30N60ATMA1	100	SMBD7000 (Dual)	SP000014938	SMBD7000E6327HTSA1	174
SGD02N120	SP000012566	SGD02N120BUMA1	100	SMBD914	SP000010209	SMBD914E6327HTSA1	174
SGD02N60	SP000011993	SGD02N60BUMA1	100	SMBT2222A	SP000011176	SMBT2222AE6327HTSA1	172
SGD04N60	SP000011994	SGD04N60BUMA1	100	SMBT2907A	SP000011181	SMBT2907AE6327HTSA1	172
SGD06N60	SP000011995	SGD06N60BUMA1	100	SMBT3904	SP000011675	SMBT3904E643HTMA1	172
SGI 02N120	SP000683104	SGI02N120XKSA1	100	SMBT3904UPN	SP000011673	SMBT3904UPNE6327HTSA1	172
SGP02N120	SP000683106	SGP02N120XKSA1	100	SMBT3904PN	SP000749584	SMBT3904PNH6327XTSA1	172
SGP02N60	SP000683108	SGP02N60XKSA1	100	SMBT3904S	SP000749590	SMBT3904SH6327XTSA1	172
SGP04N60	SP000683110	SGP04N60XKSA1	100	SMBT3904UPN	SP000012617	SMBT3904UPNE6327HTSA1	172
SGP06N60	SP000683112	SGP06N60XKSA1	100	SMBT3906	SP000011680	SMBT3906E6327HTSA1	172
SGP07N120	SP000683116	SGP07N120XKSA1	100	SMBT3906S	SP000749596	SMBT3906SH6327XTSA1	172
SGP10N60A	SP000683118	SGP10N60AXKSA1	100	SMBT3906U	SP000012616	SMBT3906UE6327HTSA1	172
SGP15N120	SP000683122	SGP15N120XKSA1	100	SMBTA06	SP000011688	SMBTA06E6433HTMA1	170
SGP15N60	SP000683124	SGP15N60XKSA1	100	SMBTA06	SP000011686	SMBTA06E6327HTSA1	170
SGP20N60	SP000683126	SGP20N60XKSA1	100	SMBTA06UPN	SP000012393	SMBTA06UPNE6327HTSA1	170
SGP20N60HS	SP000683128	SGP20N60HSXKSA1	102	SMBTA14	SP000010872	SMBTA14E6327HTSA1	173
SGP30N60	SP000683130	SGP30N60XKSA1	100	SMBTA42	SP000011000	SMBTA42E6327HTSA1	173
SGP30N60HS	SP000683132	SGP30N60HSXKSA1	102	SMBTA56	SP000011692	SMBTA56E6327HTSA1	170
SGW10N60A	SP000013742	SGW10N60AFKSA1	100	SMBTA56	SP000011695	SMBTA56E6433HTMA1	170
SGW15N120	SP000012564	SGW15N120FKSA1	100	SMBTA92	SP000011004	SMBTA92E6327HTSA1	173
SGW15N60	SP000012465	SGW15N60FKSA1	100	SN7002N	SP000702638	SN7002NH6327XTSA1	80
SGW20N60	SP000012466	SGW20N60FKSA1	100	SN7002N	SP000929188	SN7002NH6327XTSA2	80
SGW20N60HS	SP000013771	SGW20N60HSFKSA1	102	SN7002N H6433	SP000924072	SN7002NH6433XTMA1	80
SGW25N120	SP000012565	SGW25N120CKSA1	100	SN7002W	SP000917572	SN7002WH6327XTSA1	80
SGW30N60	SP000012467	SGW30N60FKSA1	100	SN7002W	SP000245414	SN7002WL6327HTMA1	80
SGW30N60HS	SP000013770	SGW30N60HSFKSA1	102	SN7002W H6433	SP000917588	SN7002WL6433HTMA1	80
SGW50N60HS	SP000089248	SGW50N60HSFKSA1	102	SN7002W L6433	SP000245413	SN7002WL6433HTMA1	80
SKA06N60	SP000215379	SKA06N60XKSA1	101	SP370-23-10-6-0	SP000707702	SP370231060XTMA1	185
SKB02N120	SP000012567	SKB02N120ATMA1	101	SPA02N80C3	SP000216295	SPA02N80C3XKSA1	95
SKB02N60	SP000012416	SKB02N60ATMA1	101	SPA03N60C3	SP000216296	SPA03N60C3XKSA1	88
SKB02N60 E3266	SP000012417	SKB02N60E3266ATMA1	101	SPA04N50C3	SP000216298	SPA04N50C3XKSA1	86
SKB04N60	SP000012425	SKB04N60ATMA1	101	SPA04N60C3	SP000216299	SPA04N60C3XKSA1	88
SKB06N60	SP000012427	SKB06N60ATMA1	101	SPA04N80C3	SP000216300	SPA04N80C3XKSA1	95
SKB06N60HS	SP000014222	SKB06N60HSATMA1	102	SPA06N60C3	SP000216301	SPA06N60C3XKSA1	88
SKB10N60A	SP000013740	SKB10N60AATMA1	101	SPA06N80C3	SP000216302	SPA06N80C3XKSA1	95
SKB15N60	SP000012429	SKB15N60ATMA1	101	SPA07N60C3	SP000216303	SPA07N60C3XKSA1	88
SKB15N60 E8151	SP000012430	SKB15N60E8151ATMA1	101	SPA07N60CFD	SP000264431	SPA07N60CFDXKSA1	88
SKB15N60HS	SP000014221	SKB15N60HSATMA1	102	SPA07N65C3	SP000216305	SPA07N65C3XKSA1	92



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SPA11N60C3	SP000216312	SPA11N60C3XKSA1	88	SPI15N65C3	SP000681002	SPI15N65C3XKSA1	92
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SPA15N60CFD	SP000264432	SPA15N60CFDXKSA1	87	SPI20N60CFD	SP000681008	SPI20N60CFDXKSA1	88
SPA15N65C3	SP000293730	SPA15N65C3XKSA1	92	SPI20N65C3	SP000014525	SPI20N65C3HKSA1	92
SPA16N50C3	SP000216351	SPA16N50C3XKSA1	86	SPI20N65C3	SP000681010	SPI20N65C3XKSA1	92
SPA17N80C3	SP000216353	SPA17N80C3XKSA1	95	SPI21N50C3	SP000014463	SPI21N50C3HKSA1	86
SPA20N60C3	SP000216354	SPA20N60C3XKSA1	87	SPI21N50C3	SP000681012	SPI21N50C3XKSA1	86
SPA20N60CFD	SP000216361	SPA20N60CFDXKSA1	87	SPP02N60C3	SP000013523	SPP02N60C3HKSA1	90
SPA20N65C3	SP000216362	SPA20N65C3XKSA1	92	SPP02N60C3	SP000681014	SPP02N60C3XKSA1	90
SPA21N50C3	SP000216364	SPA21N50C3XKSA1	86	SPP02N80C3	SP000683150	SPP02N80C3XKSA1	95
SPB02N60C3	SP000013516	SPB02N60C3ATMA1	88	SPP03N60C3	SP000013524	SPP03N60C3HKSA1	90
SPB03N60C3	SP000013517	SPB03N60C3ATMA1	88	SPP03N60C3	SP000681018	SPP03N60C3XKSA1	90
SPB04N50C3	SP000014477	SPB04N50C3ATMA1	86	SPP04N50C3	SP000014478	SPP04N50C3HKSA1	87
SPB04N60C3	SP000013533	SPB04N60C3ATMA1	88	SPP04N50C3	SP000681022	SPP04N50C3XKSA1	87
SPB07N60C3	SP000013518	SPB07N60C3ATMA1	88	SPP04N60C3	SP000013534	SPP04N60C3HKSA1	90
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SPB12N50C3	SP000014894	SPB12N50C3ATMA1	86	SPP06N60C3	SP000681028	SPP06N60C3XKSA1	90
SPB160N04S2-03	SP000014263	SPB160N04S203CTMA1	68	SPP06N80C3	SP000683154	SPP06N80C3XKSA1	95
SPB160N04S2L-03	SP000014639	SPB160N04S2L03DPTMA1	86	SPP07N60C3	SP000013525	SPP07N60C3HKSA1	90
SPB16N50C3	SP000014895	SPB16N50C3ATMA1	68	SPP07N60C3	SP000681030	SPP07N60C3XKSA1	90
SPB17N80C3	SP000013370	SPB17N80C3ATMA1	95	SPP07N60CFD	SP000264424	SPP07N60CFDXKSA1	90
SPB18P06P G	SP000102181	SPB18P06PGATMA1	96	SPP07N60CFD	SP000681032	SPP07N60CFDXKSA1	90
SPB20N60C3	SP000013520	SPB20N60C3ATMA1	88	SPP07N65C3	SP000014631	SPP07N65C3HKSA1	92
SPB21N50C3	SP000013833	SPB21N50C3ATMA1	86	SPP07N65C3	SP000681036	SPP07N65C3XKSA1	92
SPB80N03S2-03 G	SP000200139	SPB80N03S203GATMA1	65	SPP07N65C3	SP000014631	SPP07N65C3HKSA1	93
SPB80N06S-08	SP000084808	SPB80N06S08ATMA1	69	SPP07N65C3	SP000681036	SPP07N65C3XKSA1	93
SPB80P06P G	SP000096088	SPB80P06PGATMA1	96	SPP08N50C3	SP000013834	SPP08N50C3HKSA1	87
SPD01N60C3	SP000307382	SPD01N60C3BTMA1	88	SPP08N50C3	SP000681038	SPP08N50C3XKSA1	87
SPD02N50C3	SP000013942	SPD02N50C3BTMA1	86	SPP08N80C3	SP000683156	SPP08N80C3XKSA1	95
SPD02N60C3	SP000308771	SPD02N60C3BTMA1	88	SPP08P06P H	SP000446908	SPP08P06PHXKSA1	96
SPD02N80C3	SP000315409	SPD02N80C3BTMA1	95	SPP11N60C3	SP000013526	SPP11N60C3HKSA1	89
SPD03N50C3	SP000307392	SPD03N50C3BTMA1	86	SPP11N60C3	SP000681040	SPP11N60C3XKSA1	89
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SPD04N50C3	SP000313945	SPD04N50C3BTMA1	86	SPP11N60CFD	SP000681042	SPP11N60CFDXKSA1	89
SPD04N60C3	SP000313944	SPD04N60C3BTMA1	88	SPP11N65C3	SP000014371	SPP11N65C3HKSA1	92
SPD04N80C3	SP000315410	SPD04N80C3BTMA1	95	SPP11N65C3	SP000681046	SPP11N65C3XKSA1	92
SPD04P10P G	SP000212230	SPD04P10PGBTMA1	96	SPP11N65C3	SP000014371	SPP11N65C3BKSA1	93
SPD04P10PL G	SP000212231	SPD04P10PLGBTMA1	96	SPP11N65C3	SP000681046	SPP11N65C3XKSA1	93
SPD06N60C3	SP000307394	SPD06N60C3BTMA1	88	SPP11N80C3	SP000683158	SPP11N80C3XKSA1	95
SPD06N80C3	SP000318350	SPD06N80C3BTMA1	95	SPP12N50C3	SP000014459	SPP12N50C3HKSA1	87
SPD07N20 G	SP000449008	SPD07N20GBTMA1	85	SPP12N50C3	SP000681048	SPP12N50C3XKSA1	87
SPD07N60C3	SP000313947	SPD07N60C3BTMA1	88	SPP15N60C3	SP000014527	SPP15N60C3HKSA1	89
SPD08N50C3	SP000307395	SPD08N50C3BTMA1	86	SPP15N60C3	SP000681050	SPP15N60C3XKSA1	89
SPD08P06P G	SP000450534	SPD08P06PGBTMA1	96	SPP15N60CFD	SP000264425	SPP15N60CFDXKSA1	89
SPD09P06PL G	SP000443928	SPD09P06PLGBTMA1	96	SPP15N60CFD	SP000681052	SPP15N60CFDXKSA1	89
SPD15P10P G	SP000212233	SPD15P10PGBTMA1	96	SPP15N65C3	SP000294824	SPP15N65C3HKSA1	92
SPD15P10PL G	SP0000317393	SPD15P10PLGBTMA1	96	SPP15N65C3	SP000681054	SPP15N65C3XKSA1	92
SPD18P06P G	SP000443926	SPD18P06PGBTMA1	96	SPP15N65C3	SP000294824	SPP15N65C3HKSA1	93
SPD30N03S2L-07 G	SP000443922	SPD30N03S2L07GBTMA1	65	SPP15N65C3	SP000681054	SPP15N65C3XKSA1	93
SPD30N03S2L-10 G	SP000443918	SPD30N03S2L10GBTMA1	65	SPP15P10P H	SP000683160	SPP15P10PHXKSA1	96
SPD30N03S2L-20 G	SP000443768	SPD30N03S2L20GBTMA1	65	SPP15P10PL H	SP000683162	SPP15P10PLHXKSA1	96
SPD30P06P G	SP000441776	SPD30P06PGBTMA1	96	SPP16N50C3	SP000014460	SPP16N50C3HKSA1	87
SPD50N03S2-07 G	SP000443920	SPD50N03S207GBTMA1	65	SPP16N50C3	SP000681056	SPP16N50C3XKSA1	87
SPD50N03S2L-06 G	SP000443924	SPD50N03S2L06GBTMA1	65	SPP17N80C3	SP000683164	SPP17N80C3XKSA1	95
SPD50P03L G	SP000371908	SPD50P03LGBTMA1	97	SPP18P06P H	SP000446906	SPP18P06PHXKSA1	96
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SPI07N60C3	SP000680976	SPI07N60C3XKSA1	89	SPP20N60C3	SP000681058	SPP20N60C3XKSA1	89
SPI07N65C3	SP000014632	SPI07N65C3HKSA1	92	SPP20N60CFD	SP000014475	SPP20N60CFDXKSA1	89
SPI07N65C3	SP000680982	SPI07N65C3XKSA1	92	SPP20N60CFD	SP000681060	SPP20N60CFDXKSA1	89
SPI07N65C3	SP000014632	SPI07N65C3HKSA1	92	SPP20N65C3	SP000014369	SPP20N65C3HKSA1	92
SPI07N65C3	SP000680982	SPI07N65C3XKSA1	92	SPP20N65C3	SP000681064	SPP20N65C3XKSA1	92
SPI08N50C3	SP000014461	SPI08N50C3HKSA1	86	SPP20N65C3	SP000014369	SPP20N65C3XKSA1	93
SPI08N50C3	SP000680984	SPI08N50C3XKSA1	86	SPP20N65C3	SP000681064	SPP20N65C3XKSA1	93
SPI08N80C3	SP000683148	SPI08N80C3XKSA1	95	SPP21N50C3	SP000013832	SPP21N50C3HKSA1	87
SPI11N60C3	SP000013522	SPI11N60C3HKSA1	89	SPP21N50C3	SP000681066	SPP21N50C3XKSA1	87
SPI11N60C3	SP000680986	SPI11N60C3XKSA1	89	SPP24N60C3	SP000014690	SPP24N60C3HKSA1	89
SPI11N60CFD	SP000229994	SPI11N60CFDXKSA1	89	SPP24N60C3	SP000681068	SPP24N60C3XKSA1	89
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SPI11N65C3	SP000014526	SPI11N65C3HKSA1	92	SPP24N60CFD	SP000681070	SPP24N60CFDXKSA1	89
SPI11N65C3	SP000680994	SPI11N65C3XKSA1	92	SPP80N03S2L-04	SP000013902	SPP80N03S2L04AKSA1	65
SPI11N65C3	SP000014526	SPI11N65C3HKSA1	92	SPP80N03S2L-05	SP000013466	SPP80N03S2L05AKSA1	65
SPI11N65C3	SP000680994	SPI11N65C3XKSA1	92	SPP80N06S-08	SP000084810	SPP80N06S08AKSA1	69
SPI12N50C3	SP000014467	SPI12N50C3HKSA1	86	SPP80P06P H	SP000441774	SPP80P06PHXKSA1	96
SPI12N50C3	SP000680996	SPI12N50C3XKSA1	86	SPS01N60C3	SP000307396	SPS01N60C3BKMA1	90
SPI15N60C3	SP000014528	SPI15N60C3HKSA1	89	SPS02N60C3	SP000307410	SPS02N60C3BKMA1	90
SPI15N60C3	SP000680998	SPI15N60C3XKSA1	89	SPS03N60C3	SP000307418	SPS03N60C3BKMA1	90
SPI15N60CFD	SP000264433	SPI15N60CFDXKSA1	89	SPS04N60C3	SP000307419	SPS04N60C3BKMA1	90

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SPU03N60C3	SP000095849	SPU03N60C3BKMA1	90	TDA5231	SP000202847	TDA5231XUMA1	190
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SPW07N60CFD	SP000264430	SPW07N60CFDFKSA1	90	TDA5250	SP000012956	TDA5250XUMA1	191
SPW11N60C3	SP000013728	SPW11N60C3CKSA1	90	TDA5251	SP000014554	TDA5251XUMA1	191
SPW11N60CFD	SP000014534	SPW11N60CFDFKSA1	90	TDA5252	SP000057332	TDA5252XUMA1	191
SPW11N80C3	SP000013703	SPW11N80C3CKSA1	95	TDA5255	SP000014555	TDA5255XUMA1	191
SPW12N50C3	SP000014469	SPW12N50C3FKSA1	87	TDA5325	SP000803726		191
SPW15N60C3	SP000014530	SPW15N60C3FKSA1	90	TDA5340	SP000803722		191
SPW15N60CFD	SP000264429	SPW15N60CFDFKSA1	90	TDA7100	SP000296466	TDA7100HTMA1	191
SPW16N50C3	SP000014472	SPW16N50C3FKSA1	87	TDA7110	SP000524278	TDA7110XUMA1	191
SPW17N80C3	SP000013369	SPW17N80C3CKSA1	95	TDA7110F	SP000611108	TDA7110FHTMA1	191
SPW20N60C3	SP000013729	SPW20N60C3CKSA1	90	TDA7116F	SP000611114	TDA7116FHTMA1	191
SPW20N60CFD	SP000014535	SPW20N60CFDFKSA1	90	TDA7200	SP000296473	TDA7200XUMA1	190
SPW21N50C3	SP000014464	SPW21N50C3FKSA1	87	TDA7210	SP000524274	TDA7210XUMA1	190
SPW24N60C3	SP000014695	SPW24N60C3CKSA1	90	TDA7210V	SP000698080	TDA7210VXUMA1	190
SPW24N60CFD	SP000264428	SPW24N60CFDFKSA1	90	TDA7255V	SP000698114	TDA7255VFUMA1	191
SPW32N50C3	SP000014625	SPW32N50C3FKSA1	87	TDK5100	SP000014557	TDK5100XUMA1	191
SPW35N60C3	SP000014970	SPW35N60C3FKSA1	90	TDK5100F	SP000014745	TDK5100FHTMA1	191
SPW35N60CFD	SP000065487	SPW35N60CFDFKSA1	90	TDK5101	SP000014559	TDK5101XUMA1	191
SPW47N60C3	SP000013953	SPW47N60C3CKSA1	90	TDK5101F	SP000014744	TDK5101FHTMA1	191
SPW47N60CFD	SP000065376	SPW47N60CFDFKSA1	90	TDK5110	SP000013532	TDK5110XUMA1	191
SPW47N65C3	SP000274751	SPW47N65C3FKSA1	92	TDK5110F	SP000056180	TDK5110FHTMA1	191
SPW47N65C3	SP000274751	SPW47N65C3FKSA1	93	TDK5111	SP000014017	TDK5111XUMA1	191
SPW52N50C3	SP000014626	SPW52N50C3FKSA1	87	TDK5111F	SP000056181	TDK5111FHTMA1	191
SPW55N80C3	SP000849356	SPW55N80C3FKSA1	95	TDK5116F	SP000056182	TDK5116FHTMA1	191
SRF 55V02P HC MCC2	SP000630956	SRF55V02PHCMCC2ZZZA1	196	TLD1211SJ	SP000735204	TLD1211SJFUMA1	180
SRF 55V02P HC NB	SP000292806	SRF55V02PHCNBZZZA1	196	TLD5045EJ	SP000769888	TLD5045EJXUMA1	180
SRF 55V02P HC NB	SP000245649	SRF55V02PHCNB1SA1	196	TLD5085EJ	SP000550912	TLD5085EJFUMA1	180
SRF 55V02P MCC2	SP000430934	SRF55V02PMCC2XHS1	196	TLD5095EL	SP000464524	TLD5095ELXUMA1	180
SRF 55V02P MCC8	SP000520644	SRF55V02PMCC8XHS1	196	TLD5098EL	SP000671268	TLD5098ELXUMA1	180
SRF 55V02P NB	SP000405806	SRF55V02PNBX1SA7	196	TLE4205G	SP000011747	TLE4205GNKLA1	119
SRF 55V02S HC NB	SP000657790	SRF55V02SHCNB1SA1	196	TLE4206-2G	SP000303750	TLE42062GXUMA1	119
SRF 55V02S MCC8	SP000712968	SRF55V02SMCC8ZZZA1	196	TLE4206-4G	SP000840122	TLE42064GXUMA1	119
SRF 55V02S NB	SP000622602	SRF55V02SNBX1SA3	196	TLE4206G	SP000298150	TLE4206GXUMA1	119
SRF 55V10P HC NB	SP000460854	SRF55V10PHCNBZZZA1	196	TLE4207G	SP000305202	TLE4207GXUMA1	119
SRF 55V10P HC NB	SP000315963	SRF55V10PHCNB1SA1	196	TLE4208G	SP000305242	TLE4208GXUMA1	119
SRF 55V10P MCC2	SP000430930	SRF55V10PMCC2XHS2	196	TLE4209A	SP000305193	TLE4209AHKLA1	119
SRF 55V10P MCC8	SP000520654	SRF55V10PMCC8XHS1	196	TLE4209G	SP000270563	TLE4209GXUMA1	119
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**4**

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**5**

**LED Driver & Lighting ICs**

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**6**

**Sensors**

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**7**

**Chip Card & Security ICs**

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**8**

**Summary of Types**

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