



# B5819XP

## 1.0 A Schottky Rectifier 40 Volts

### Features

- Low forward voltage drop
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Marking: AD

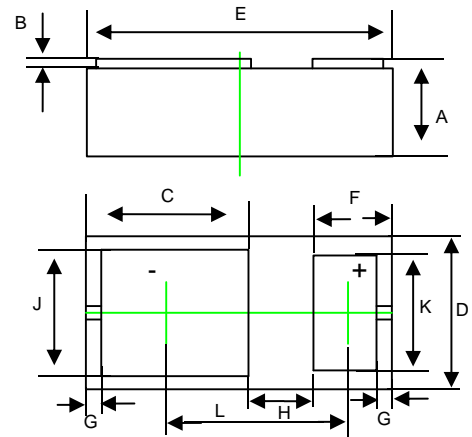


### Maximum Ratings

Symbol	Rating	Rating	Unit
$V_{RWM}$	Working Peak Reverse Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
$I_O$	Mean Rectifying Current	1.0	A
$I_{FSM}$	Peak Forward Surge Current @t<8.3ms	5.0	A
$P_D$	Power Dissipation	150	mW
$R_{thJA}$	Thermal Resistance from Junction to Ambient	667	°C/W
$T_J$	Junction Temperature	125	°C
$T_{STG}$	Storage Temperature	-55 to +150	°C

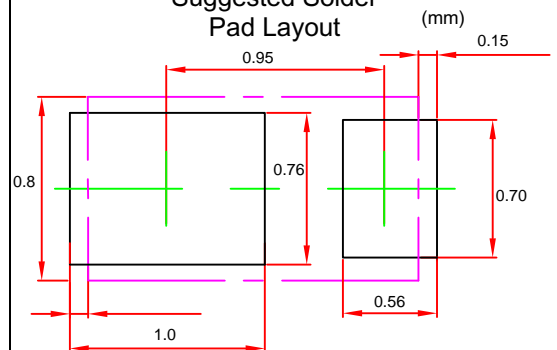
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)}$	Reverse Voltage ( $I_R=10\mu A_{dc}$ )	40	---	---	$\mu A_{dc}$
$I_R$	Reverse Current ( $V_R=40V_{dc}$ )	---	---	50	$\mu A_{dc}$
$V_F$	Forward Voltage ( $I_F=0.5A_{dc}$ ) ( $I_F=0.7A_{dc}$ )	---	0.47	---	Vdc
$C_D$	Forward Voltage ( $V_R=1V_{dc}; f=1MHz; T_j=25^\circ C$ ) ( $V_R=10V_{dc}; f=1MHz; T_j=25^\circ C$ )	---	50	---	pF
$t_{rr}$	Reverse Recovery Time ( $I_F=I_R=10mA; R_L=100; I_{R(meas)}=1mA$ )	---	15	---	ns

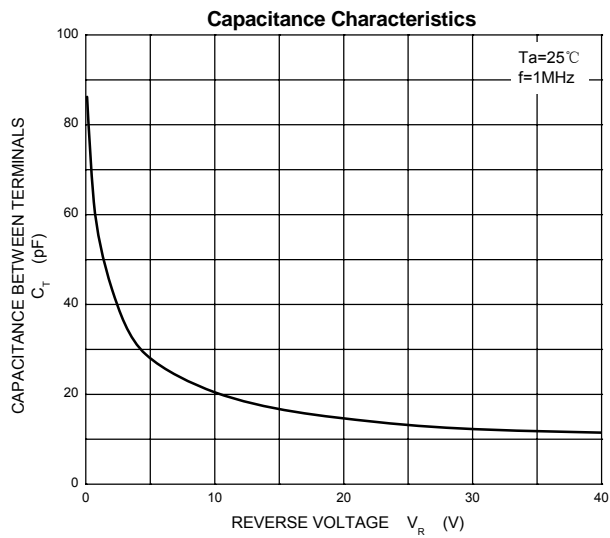
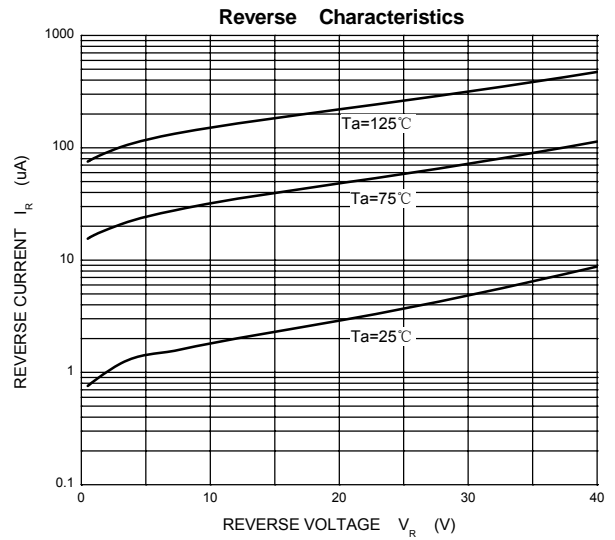
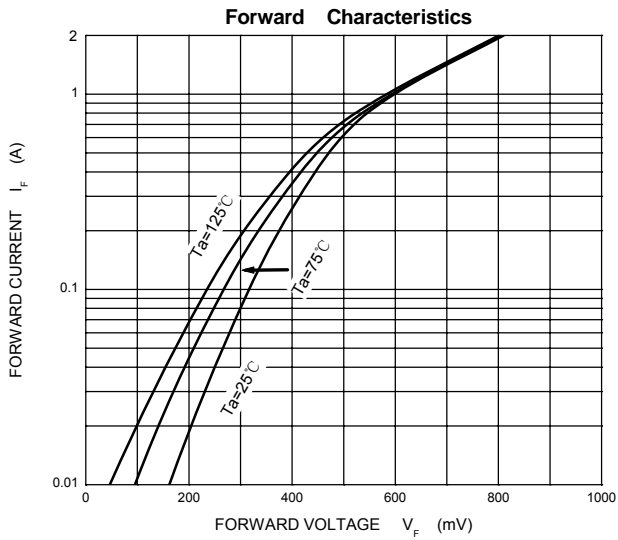


DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	0.018	0.022	0.45	0.55	
B	0.000	0.004	0.01	0.09	
C	0.033 REF.		0.850 REF.		
D	0.030	0.033	0.75	0.85	
E	0.061	0.065	1.55	1.65	
F	0.016 REF.		0.410 REF.		
G	0.003 REF.		0.080 REF.		
H	0.013 REF.		0.340 REF.		
J	0.024	0.030	0.60	0.76	
K	0.020	0.027	0.52	0.68	
L	0.035	0.039	0.90	1.00	

### Suggested Solder Pad Layout



## Typical Characteristics





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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