



Text Size

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Photointerrupter Double Mold Type

RPI-151 **NEW**

Inquiries concerning our products

Data Sheet

[Product description]
 ROHM's optical sensors serve as eyes to monitor changes of any motions, and comply with customers' day-to-day diversifying requests.

Features

- Gap width 1.5mm
- 2-phase Output type

Product specifications

| Absolute maximum ratings (Tc=25°C) | | |
|--|----------------|------------|
| Rated parameters | Standard value | Conditions |
| Input(LED) | | |
| Forward current I _F (mA) | 50 | |
| Reverse voltage V _R (V) | 5 | |
| Power dissipation P _D (mW) | 70 | |
| Collector-Emitter voltage V _{CEO} (V) | 30 | |
| Output(Photo-toransistor) | | |
| Emitter-Collector voltage V _{ECO} (V) | 4.5 | |
| Collector current I _C (mA) | 30 | |
| Power dissipation P _C (mW) | 80 | |
| Temperature Characteristics | | |
| Operating temperature Topr(°C) | -25 to 85 | |
| Storage temperature Tstg(°C) | -30 to 85 | |

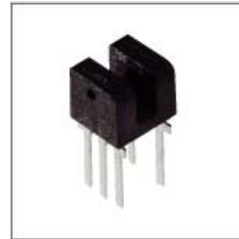
Electro-optical characteristics (Ta=25°C)

| Parameters | Value | Conditions |
|--|-------|--|
| Input Characteristics | | |
| Input Characteristics Forward voltage V _F (V) | 1.20 | I _F =10mA |
| Input Characteristics Reverse current I _R (μA) | 10 | V _R =10V |
| Output Characteristics | | |
| Output Characteristics Dark current-Max. I _{CEO} (μA) | 0.5 | V _{CE} =10V |
| Output Characteristics Peak sensitivity wavelength λP(nm) | 800 | |
| Transfer Characteristics | | |
| Transfer Characteristics Collector current-Max. I _C (mA) | 0.25 | V _{CE} =5V, I _F =5mA |
| Transfer Characteristics Collector-Emitter saturation voltage-Max. V _{CE(sat)} (V) | 0.4 | I _F =10mA, I _C =0.1mA |
| Transfer Characteristics Response time tr·tf(μs) | 10 | V _{CC} =5V, I _F =5mA, R _L =100Ω |
| Infrared Light Emitting Diode | | |
| Infrared Light Emitting Diode Cut- | - | I _F =50mA |

Print out

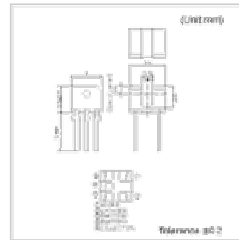
- Optical Sensors
- 2008.07.23**
Industry's thinnest ! 4 Direction Detection Sensor RPI-1040 !
- Part No. explanation
- Notes on mounting
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Outline



2-phase Output Type

Dimensions



* Click to enlarge.

| | | |
|--|-----|---|
| off frequency F_C | | * Non-coherent Infrared light emitting diode used. |
| Infrared Light Emitting Diode Peak light emitting wavelength λ_P (nm) | 950 | $I_F=50mA$ * Non-coherent Infrared light emitting diode used. |
| Phototransistor | | |
| Phototransistor Response time t_{r-f} (μs) | 10 | $V_{CC}=5V, I_F=1mA, R_L=100\Omega$ * This product is not designed to be protected against electromagnetic wave. |
| Phototransistor Maximum sensitivity wavelength λ_P (nm) | 800 | - |

*The contents described here are just outline for introduction.

Please obtain the specification sheets from us for thorough check before use.

Status Product

| Part No. | Status *1 | RoHS | Packing style | Package quantity | Samples *2 | Sales |
|----------|-----------|------|---------------|------------------|--------------------------|-------------------------|
| RPI-151 | Active | Yes | Plastic bag | 1000 | Purchase | Inquiry |

*1 Active: Production or current type Preparation: Preliminary type Preview: Development type

*2 Available only as free rank.

Others

Please check the details on "[Product List](#)" for Others.

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