



Text Size

Site Search

Search

Site Map

HOME, Products > Opto Electronics > Optical Sensors > Transmission Type Photointerrupters > RPI-151

- ICs
- Discrete Semiconductors
- Opto Electronics
- LEDs
- LED Displays
- Laser Diodes
- Optical Sensors**
- Transmission type Photointerrupters
- Reflective type Photosensors
- Infrared Light Emitting Diodes
- Phototransistors
- 4-Direction Detector
- IrDA Infrared Communication Modules
- Remote Control Receiver Modules
- Passive Components
- Modules (Sub Systems)
-

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	

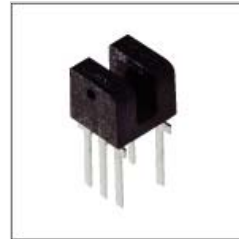
Electro-optical characteristics (Ta=25°C)

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

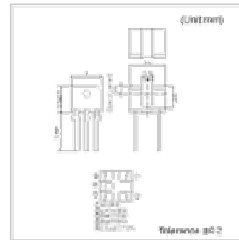
- Optical Sensors
- 2008.07.23**
Industry's thinnest ! 4 Direction Detection Sensor RPI-1040 !
- Part No. explanation
- Notes on mounting
- Soldering conditions
- FAQ
- ROHM Internet Direct Shopping
- RoHS directive compliance
- Contact us
- What is a Optical Sensors?

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.

Top of Page

[Privacy Policy](#)

[Terms & Conditions](#)

Copyright © 1997-2010 ROHM Co., Ltd.