



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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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 T_{opr} (°C)	-25 to 85	
Storage temperature T_{stg} (°C)	-30 to 85	

Electro-optical characteristics (Ta=25°C)		
Parameters	Value	Conditions
Input Characteristics		
Input Characteristics Forward voltage V_F (V)	1.20	$I_F=10\text{mA}$
Input Characteristics Reverse current I_R (μA)	10	$V_R=10\text{V}$
Output Characteristics		
Output Characteristics Dark current-Max. I_{CEO} (μA)	0.5	$V_{CE}=10\text{V}$
Output Characteristics Peak sensitivity wavelength λP (nm)	800	
Transfer Characteristics		
Transfer Characteristics Collector current-Max. I_C (mA)	0.25	$V_{CE}=5\text{V}, I_F=5\text{mA}$
Transfer Characteristics Collector-Emitter saturation voltage-Max. $V_{CE}(\text{sat})$ (V)	0.4	$I_F=10\text{mA}, I_C=0.1\text{mA}$
Transfer Characteristics Response time t_{r+tf} (μs)	10	$V_{CC}=5\text{V}, I_F=5\text{mA}, R_L=100\Omega$
Infrared Light Emitting Diode		
Infrared Light Emitting Diode Cut-	-	$I_F=50\text{mA}$

Print out

 Part No. explanation

 Notes on mounting

 Soldering conditions

 FAQ

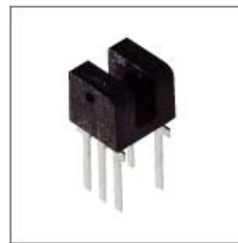
 ROHM Internet Direct Shopping

 RoHS directive compliance

 Contact us

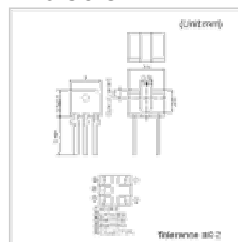
 What is a Optical Sensors?

Outline



2-phase Output Type

Dimensions



* Click to enlarge.

Optical Sensors

2008.07.23

Industry's thinnest ! 4 Direction Detection Sensor RPI-1040 !

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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