



Text Size

Site Search

Search

Site Map

HOME, Products > Opto Electronics > Optical Sensors > Transmission Type Photointerrupters > RPI-128

- 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)
- Energy Saving! ECO Devices Product Information

## Photointerrupter Double Mold Type

RPI-128 **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 1.2mm
- Ultraminiature dip type

### Product specifications

Absolute maximum ratings (Tc=25°C)		
Rated parameters	Standard value	Conditions
<b>Input(LED)</b>		
Forward current I <sub>F</sub> (mA)	30	
Reverse voltage V <sub>R</sub> (V)	5	
Power dissipation P <sub>D</sub> (mW)	80	
Collector-Emitter voltage V <sub>CEO</sub> (V)	30	
<b>Output(Photo-toransistor)</b>		
Emitter-Collector voltage V <sub>ECO</sub> (V)	4.5	
Collector current I <sub>C</sub> (mA)	30	
Power dissipation P <sub>C</sub> (mW)	80	
<b>Temperature Characteristics</b>		
Operating temperature Topr(°C)	-25 to 85	
Storage temperature Tstg(°C)	-30 to 85	

### Electro-optical characteristics (Ta=25°C)

Parameters	Value	Conditions
<b>Input Characteristics</b>		
Input Characteristics  Forward voltage V <sub>F</sub> (V)	1.35	I <sub>F</sub> =5mA
Input Characteristics  Reverse current I <sub>R</sub> (μA)	10	V <sub>R</sub> =5V
<b>Output Characteristics</b>		
Output Characteristics  Dark current-Max. I <sub>CEO</sub> (μA)	0.1	V <sub>CE</sub> =10V
Output Characteristics  Peak sensitivity wavelength λP(nm)	800	
<b>Transfer Characteristics</b>		
Transfer Characteristics  Collector current-Max. I <sub>C</sub> (mA)	1.00	V <sub>CE</sub> =5V, I <sub>F</sub> =5mA
Transfer Characteristics  Collector-Emitter saturation voltage-Max. V <sub>CE(sat)</sub> (V)	0.4	I <sub>F</sub> =20mA, I <sub>C</sub> =0.1mA
Transfer Characteristics  Response time tr+tf(μs)	10	V <sub>CC</sub> =5V, I <sub>F</sub> =20mA, R <sub>L</sub> =100Ω
<b>Infrared Light Emitting Diode</b>		
Infrared Light Emitting Diode  Cut-	-	I <sub>F</sub> =50mA

Print out

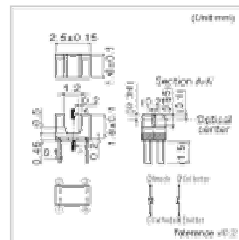
- Optical Sensors
- 2008.07.23 Industry's thinnest ! 4 Direction Detection Sensor RPI-1040 !
- Part No. explanation
- Notes on mounting
- Soldering conditions
- FAQ
- ROHM Internet Direct Shopping
- RoHS directive compliance
- Contact us
- What is a Optical Sensors?

### Outline



Ultraminiature Type

### Dimensions



\* Click to enlarge.

off frequency $F_C$		* Non-coherent Infrared light emitting diode used.
Infrared Light Emitting Diode  Peak light emitting wavelength $\lambda_P$ (nm)	850	$I_F=50mA$ * Non-coherent Infrared light emitting diode used.
<b>Phototransistor</b>		
Phototransistor  Response time $t_{r-f}$ ( $\mu s$ )	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 $\lambda_P$ (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-128	Active	Yes	Plastic bag	4000		<a href="#">Inquiry</a>

\*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](#)

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