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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-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
Input(LED)		
Forward current I_F (mA)	30	
Reverse voltage V_R (V)	5	
Power dissipation P_D (mW)	80	
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)	1.35	$I_F=5mA$
Input Characteristics Reverse current I_R (μA)	10	$V_R=5V$
Output Characteristics		
Output Characteristics Dark current-Max. I_{CEO} (μA)	0.1	$V_{CE}=10V$
Output Characteristics Peak sensitivity wavelength λP (nm)	800	
Transfer Characteristics		
Transfer Characteristics Collector current-Max. I_C (mA)	1.00	$V_{CE}=5V, I_F=5mA$
Transfer Characteristics Collector-Emitter saturation voltage-Max. $V_{CE}(sat)$ (V)	0.4	$I_F=20mA, I_C=0.1mA$
Transfer Characteristics Response time t_{r+tf} (μs)	10	$V_{CC}=5V, I_F=20mA, R_L=100\Omega$
Infrared Light Emitting Diode		
Infrared Light Emitting Diode Cut-	-	$I_F=50mA$

Print out

 Part No. explanation

 Notes on mounting

 Soldering conditions

 FAQ

 ROHM Internet Direct Shopping

 RoHS directive compliance

 Contact us

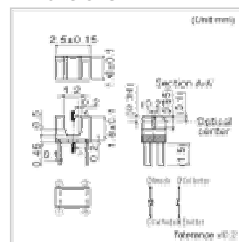
 What is a Optical Sensors?

Outline



Ultraminiature 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)	850	$I_F=50mA$ * 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-128	Active	Yes	Plastic bag	4000		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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