



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

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HOME, Products &gt; Opto Electronics &gt; Optical Sensors &gt; Transmission Type Photointerrupters &gt; 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  
ModulesRemote Control Receiver  
Modules

## Passive Components

Modules  
(Sub Systems)

## Photointerrupter Double Mold Type

RPI-128 **NEW**

Inquiries concerning our products

Data Sheet

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?

[ 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 $I_F$ (mA)	30	
Reverse voltage $V_R$ (V)	5	
Power dissipation $P_D$ (mW)	80	
Collector-Emitter voltage $V_{CEO}$ (V)	30	
<b>Output(Photo-toransistor)</b>		
Emitter-Collector voltage $V_{ECO}$ (V)	4.5	
Collector current $I_C$ (mA)	30	
Power dissipation $P_C$ (mW)	80	
<b>Temperature Characteristics</b>		
Operating temperature Topr (°C)	-25 to 85	
Storage temperature Tstg (°C)	-30 to 85	

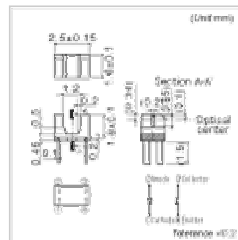
Electro-optical characteristics (Ta=25°C)		
Parameters	Value	Conditions
<b>Input Characteristics</b>		
Input Characteristics  Forward voltage $V_F$ (V)	1.35	$I_F=5\text{mA}$
Input Characteristics  Reverse current $I_R$ (μA)	10	$V_R=5\text{V}$
<b>Output Characteristics</b>		
Output Characteristics  Dark current-Max. $I_{CEO}$ (μA)	0.1	$V_{CE}=10\text{V}$
Output Characteristics  Peak sensitivity wavelength $\lambda_P$ (nm)	800	
<b>Transfer Characteristics</b>		
Transfer Characteristics  Collector current-Max. $I_C$ (mA)	1.00	$V_{CE}=5\text{V}, I_F=5\text{mA}$
Transfer Characteristics  Collector-Emitter saturation voltage-Max. $V_{CE}(\text{sat})$ (V)	0.4	$I_F=20\text{mA}, I_C=0.1\text{mA}$
Transfer Characteristics  Response time tr <sub>tf</sub> (μs)	10	$V_{CC}=5\text{V}, I_F=20\text{mA}, R_L=100\Omega$
<b>Infrared Light Emitting Diode</b>		
Infrared Light Emitting Diode  Cut-	-	$I_F=50\text{mA}$

## 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	$I_F=50\text{mA}$ * Non-coherent Infrared light emitting diode used.
<b>Phototransistor</b>		
Phototransistor  Response time $t_{r-f}$ ( $\mu\text{s}$ )	10	$V_{CC}=5\text{V}, I_F=1\text{mA}, R_L=100\Omega$ * 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.

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