

Surface mount type illuminance sensor

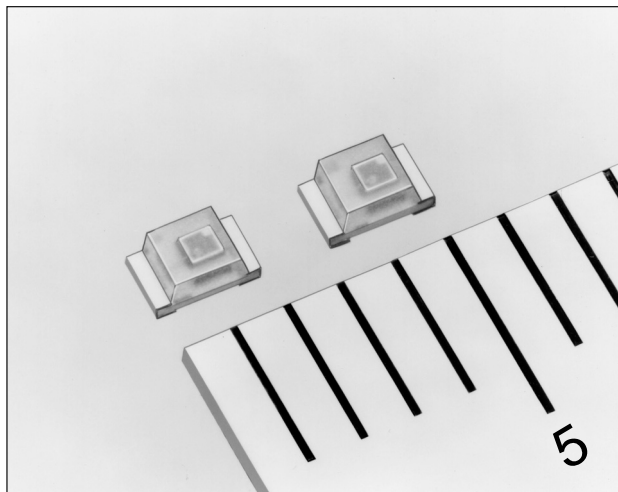
RPM-075PT

Quite new phototransistor which peak sensitivity is designed as same level as human eye.

Best sensor to detect illuminance.

(Peak sensitivity is 600nm)

Small and light weight package which can be used for reflow soldering and Pb free soldering.



Applications

- Control of lighting cellular phones, LCD displays, etc.
- Control of strobe.
(DSC, camcorder, etc.)

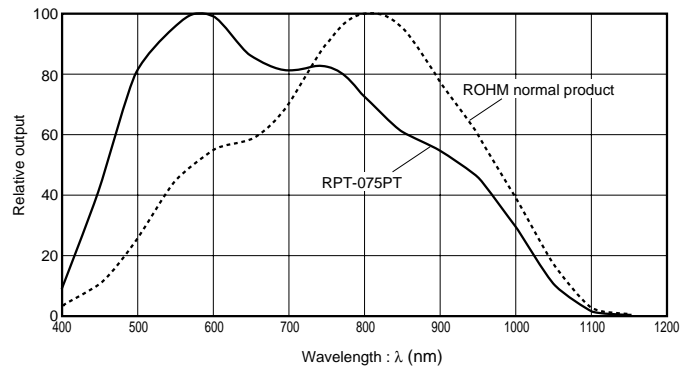
Characteristics

- 1) Best sensor to detect illuminance.
(Peak sensitivity is 600nm)
- 2) Small (2125) and light weight package (3mg) which can be used for reflow soldering and Pb free soldering.
- 3) Linear against wide range of illuminance from 10Lx to 10000Lx.

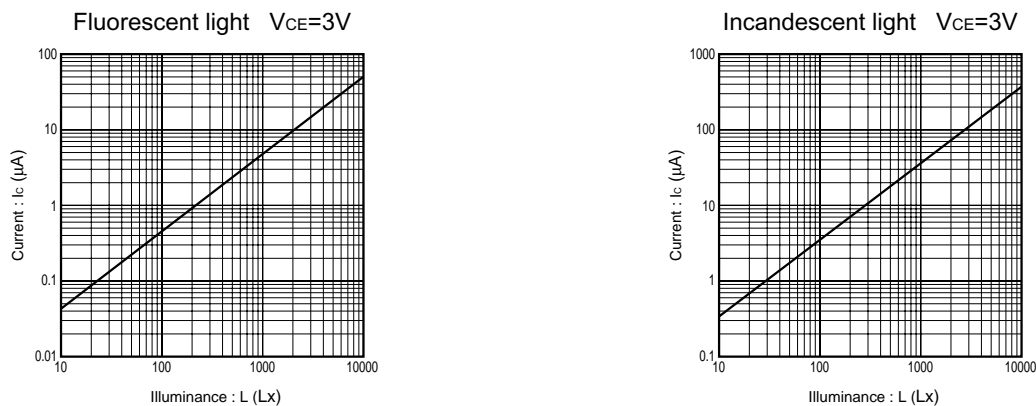
Electrical optical characteristics

Items	Symbol	Min.	Typ.	Max.	Unit	Conditions
Light current I	I _{c 950}	0.25	0.4	0.6	mA	V _{CE} =5V, E950=500Lx
Dark current	I _{CEO}	—	—	0.5	μA	V _{CE} =10V
Peak sensitive wave	λ _P	—	600	—	nm	
Half angle	θ _{1/2}	—	±60	—	deg	
Reflective time	t _r t _f	—	10	—	μs	V _{CE} =3V, R _L =100Ω

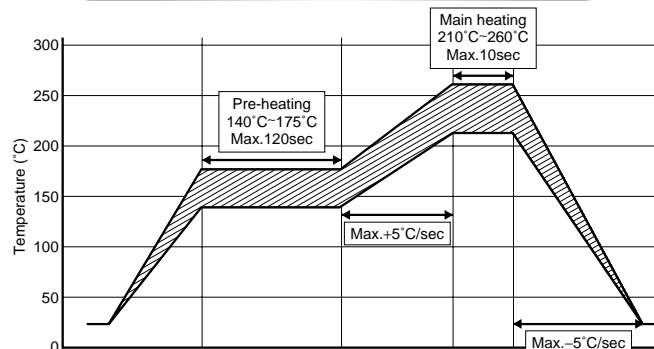
Optical characteristic



Sensitivity characteristics



Reflow soldering condition



- The contents described herein are correct as of April 1, 2001
- ROHM assumes no responsibility for the use of any circuits described herein, conveys no license under any patent or other right, and makes no representations that the circuits are free from patent infringement. Specifications subject to change without notice for the purpose of improvement.

The products listed in this catalog are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys). Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

Excellence in Electronics

ROHM

ROHM CO., LTD.

Head Office
21, Saini Mizosaki-cho, Ukyo-ku, Kyoto
615-8585, Japan
TEL:(075)311-2121 FAX:(075)315-0172
URL <http://www.rohm.com>

Contact us for further information about the products.

Alpharetta, GA, U.S.A. / ROHM ELECTRONICS EASTERN SALES DIVISION.

TEL:(770)754-5972 FAX:(770)754-0891

Plano, TX, U.S.A. / ROHM ELECTRONICS CENTRAL SALES DIVISION

TEL:(972)312-6618 FAX:(972)312-0390

San Diego, CA, U.S.A. / ROHM ELECTRONICS WESTERN SALES DIVISION

TEL:(619)625-3630 FAX:(619)625-3670

Germany / ROHM ELECTRONICS GMBH

TEL:(2154)9210 FAX:(2154)921400

United Kingdom / ROHM ELECTRONICS (U.K.) LIMITED

TEL:(1908)282-666 FAX:(1908)282-528

France / ROHM ELECTRONICS (FRANCE) S.A.S.

TEL:(1)4123-1400 FAX:(1)4123-1430

Hong Kong / ROHM ELECTRONICS (H.K.) CO., LTD.

TEL:(2740)6262 FAX:(2)375-8971

Singapore / ROHM ELECTRONICS ASIA PTE. LTD. (RES DIVISION)

TEL:(2)332-2322 FAX:(2)332-5662

Taipei, Taiwan / ROHM ELECTRONICS TAIWAN CO., LTD.

TEL:(2)2500-6956 FAX:(2)2503-2869

Kaohsiung, Taiwan / KAOHSIUNG SALES OFFICE

TEL:(7)225-0881 FAX:(7)225-0332

Kuala Lumpur, Malaysia / ROHM ELECTRONICS (MALAYSIA) SDN. BHD.

TEL:(3)758-7467 FAX:(3)758-8377

Penang, Malaysia / PENANG SALES OFFICE

TEL:(4)228-6453 FAX:(4)228-6452

Korea / ROHM ELECTRONICS KOREA CORPORATION

TEL:(2)8182-700 FAX:(2)8182-715

Philippines / ROHM ELECTRONICS (PHILIPPINES) SALES CORPORATION

TEL:(2)807-6872 FAX:(2)809-1442

Shanghai, China / ROHM ELECTRONICS (SHANGHAI) CO., LTD.

TEL:(21)6440-0402 FAX:(21)6440-0405

Beijing, China / BEIJING REPRESENTATIVE OFFICE

TEL:(10)8451-2426 FAX:(10)8460-9518

Thailand / ROHM ELECTRONICS (THAILAND) CO., LTD.

TEL:(2)254-4890 FAX:(2)256-6334