

Surface mount type illuminance sensor

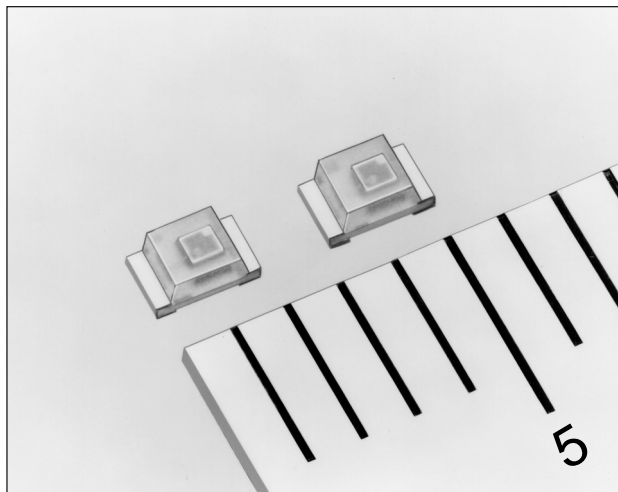
RPM-075PT

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.)

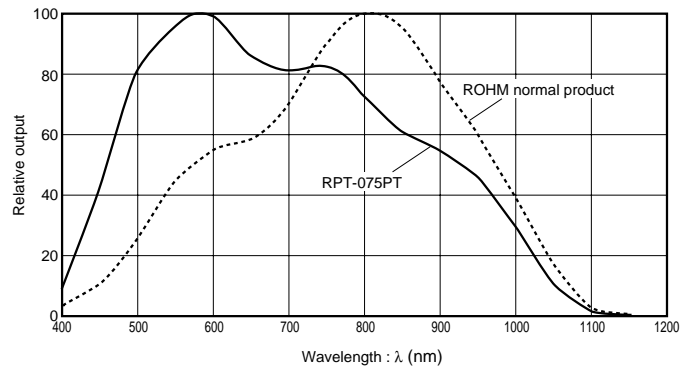
Characteristics

- 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.

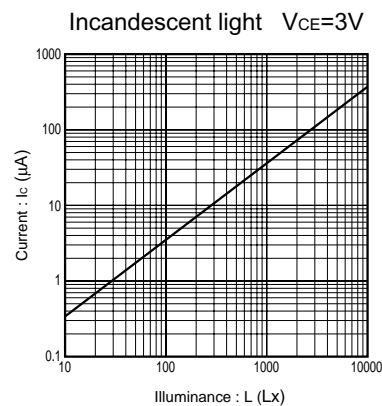
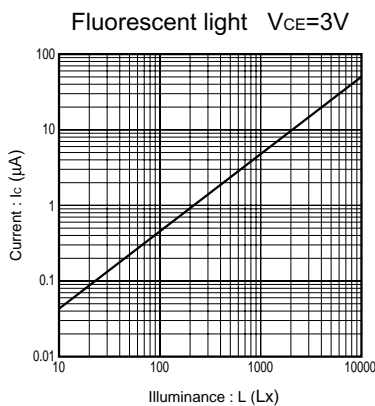
Electrical optical characteristics

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

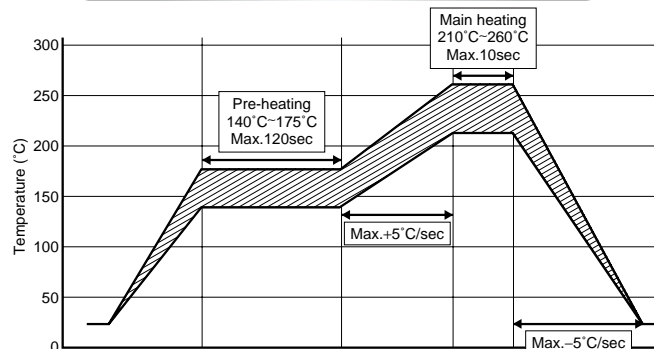
Optical characteristic



Sensitivity characteristics



Reflow soldering condition



- The contents described herein are correct as of April 1, 2001
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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.

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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

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

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