imall

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Phototransistor, top view type

RPT-38PB3F

The RPT-38PB3F is a silicon planar phototransistor. Since it is molded in plastic with a visible light filter, there is almost no effect from stray light. It is particularly suited for use with a ROHM SIR-34ST3F infrared light emitting diode.

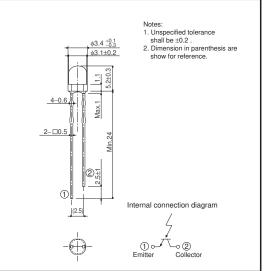
Application

Optical control equipment Receiver for sensors

Features

High sensitivity.
Almost no effect from stray light.

•Dimensions (Units : mm)

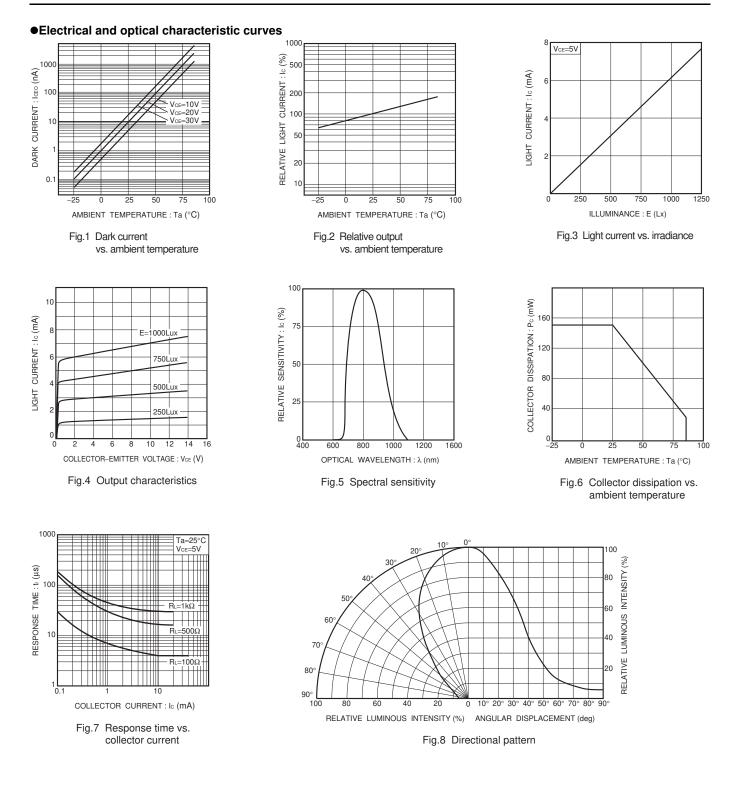


•Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Collector-emitter voltage	Vceo	32	V
Emitter-collector voltage	VECO	5	V
Collector current	lc	30	mA
Collector power dissipation	Pc	150	mW
Operating temperature	Topr	-25~+85	°C
Storage temperature	Tstg	-30~+85	°C

•Electrical and optical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Light current	lc	2.0	-	-	mA	Vce=5V, E=500Lx
Dark current	ICEO	-	-	0.5	μA	Vce=10V(Black box)
Peak sensitivity wavelength	λρ	-	800	-	nm	_
Collector-emitter saturation voltage	VCE(sat)	-	-	0.4	V	lc=1mA, E=500Lx
Half-angle	θ1/2	-	±36	-	deg	_
Response time	tr·tr	-	10	-	μs	Vcc=5V, lc=1mA, R∟=100Ω



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