Phototransistor, top view type RPT-38PT3F

RPT-38PT3F is photo transistor of the top view type.

Molded with transparent resin, and can be used for visible light source. Also, can be used for illuminance sensor.

Application

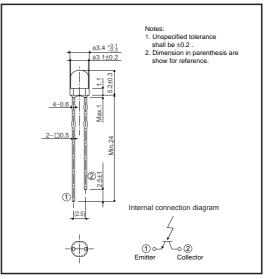
Optical control equipment Illuminance sensor.

Features

1) High sensitivity.

2) It can be used for visible light source.

•External dimensions (Unit : mm)



•Absolute maximum ratings (Ta = 25°C)

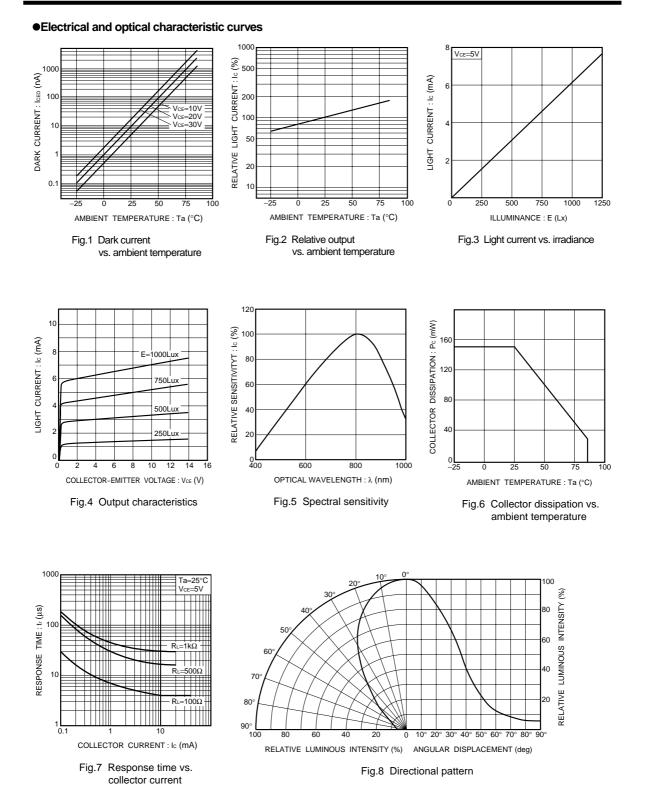
Parameter	Symbol	Limits	Unit	
Collector-emitter voltage	Vceo	32	V	
Emitter-collector voltage	Veco	5	V	
Collector current	lc	30	mA	
Collector power dissipation	Pc	150	mW	
Operating temperature	Topr	-25 to +85	°C	
Storage temperature	Tstg	-30 to +100	°C	

•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	Ic=1mA, E=500Lx
Half-angle	θ1/2	-	±36	-	deg	_
Response time	tr•tf	_	10	-	μs	Vcc=5V, Ic=1mA, R∟=100Ω



Sensors



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