# Phototransistor, surface mount type RPM-075PT

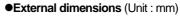
RPM-075PT is photo transistor of the top view type. Molded with transparent resin, and can be used for visible light source. Also, can be used for illuminance sensor. Small and light weight package which can be used for reflow soldering and Pb free soldering.

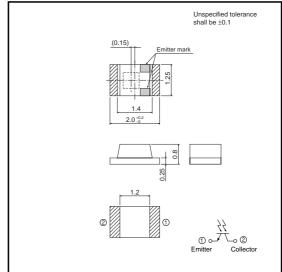
#### Application

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

#### Features

- 1) Small (2125) and light weight package (3mg) which can be used for reflow soldering and Pb free soldering.
- 2) Linear against wide range of illuminance from a few Lx to 10000Lx over.
- 3) Use Si good for an environ ment. (not CdS)
- 4) It can be used for visible light source.





#### ●Absolute maximum ratings (Ta=25°C)

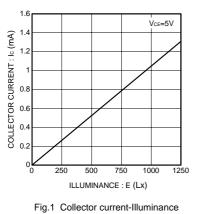
Parameter	Symbol	Limits	Unit
Collector-emitter voltage	Vceo	20	V
Emitter-collector voltage	Veco	5	V
Collector current	lc	10	mA
Collector power dissipation	Pc	50	mW
Operating temperature	Topr	-30 to +85	°C
Storage temperature	Tstg	-40 to +100	°C

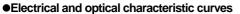
#### Electrical and optical characteristics (Ta=25°C)

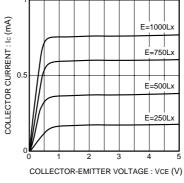
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Light current	lc	0.25	0.4	0.6	mA	Vce=5V, E=500Lx
Dark current	ICEO	I	-	0.5	μΑ	Vce=10V (Black box)
Peak sensitivity wavelength	λP	-	800	-	nm	-
Collector-emitter saturation voltage	VCE(sat)	-	-	0.4	V	Ic=0.1mA, E=500Lx
Half-angle	<del>0</del> 1/2	-	±60	-	deg	-
Response time	tr∙tf	_	10	_	μs	Vcc=5V, Ic=1mA, R∟=100Ω

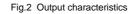


## Sensors









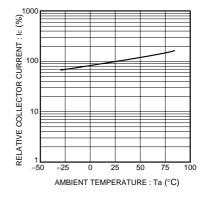


Fig.3 Relative output-Ambient temperature

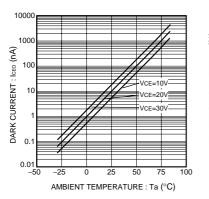
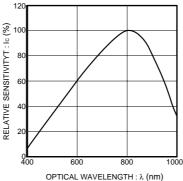


Fig.4 Dark current-Ambient temperature





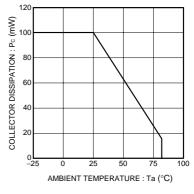
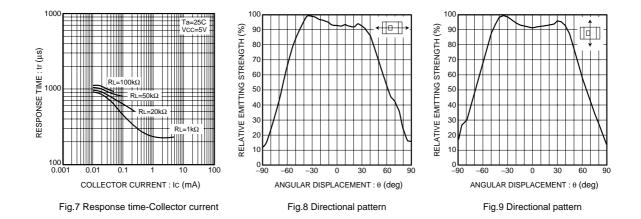


Fig.6 Collector dissipation -Ambient temperature



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