

PT008-SMC SMD TYPE PHOTO-TRANSISTOR

PT008-SMC is a surface mount type photo-transistor featuring high photocurrent.

This phototransistor consists of a chip with 0.6x0.6mm active area mounted

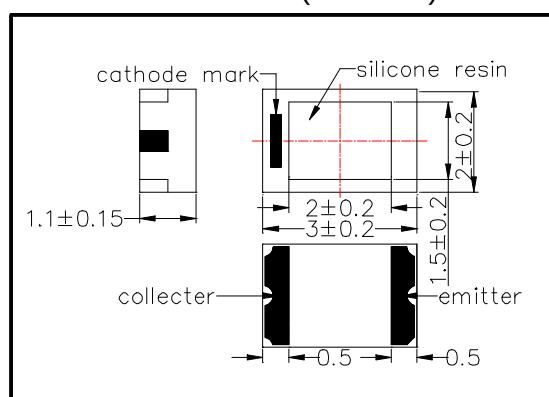
in a ceramic package and covered with silicone.

This device exhibits a half angle of sensitivity $\pm 40^\circ$ and response time of 20us.

Specifications

- 1) Product Name SMD Type Photo Transistor
- 2) Type No. PT008-SMC
- 3) Chip
 - (1) Chip Size 0.8mmx0.8mm
 - (2) Active Area 0.6mmx0.6mm
- 4) Package
 - (1) Type Ceramics
 - (2) Resin Material Silicone

Outer dimension (Unit: mm)



Absolute Maximum Ratings [Ta=25°C]

Item	Symbol	Maximum Rated Value	Unit
Collector-Emitter Breakdown Voltage	V _{CEO}	30	V
Emitter-Collector Breakdown Voltage	V _{ECO}	5	V
Collector Current	I _c	10	mA
Collector Dissipation	P _c	50	mW
Operating Temperature	T _{OPR}	-25 ~ +125	°C
Storage Temperature	T _{STG}	-30 ~ +100	°C
Soldering Temperature	T _{SOL}	240	°C

‡Soldering condition: Soldering condition must be completed within 2 seconds at 240°C

Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	unit
Photo Current	I _L	V _{CE} =5V, L=1000Lx	1	3		mA
Collector Dark Current	I _D	V _{CE} =5V			200	nA
Collector Emitter Satu. Voltage	V _{CE(S)}	I _c =2mA, L=1000Lx			0.3	V
Spectral Responsivity (Peak)	L _P			900		nm
Half Angle of Sensitivity	D _Q			±40		deg.
Rise/Fall Time(10%~90%)	tr	R _L =1KW, V _{CE} =5V		20		us
	tf	I _c =1mA		20		us