

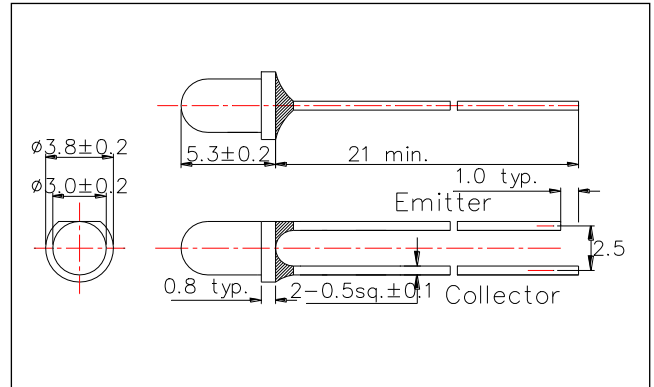
**PT008-33**  
Mold Type Phototransistor

PT008-33 is an epoxy mold type phototransistor featuring high photo current. This phototransistor consists of a chip with 0.6x0.6mm active area mounted on a lead frame with a Φ3 clear epoxy lens. This device exhibits a half angle of sensitivity ±25° and response time of 20us.

<Specifications>

1. Product Name: Mold Type Photo Transistor
2. Type Number: PT008-33
3. Chip:
  - Chip Size: 0.8mmx0.8mm
  - Active Area: 0.6mmx0.6mm
4. Package
  - Type: Φ3 Epoxy Mold
  - Resin Material: Clear Epoxy Resin
  - Lead Frame: Soldered (Pb-Free)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Collector-Emitter Breakdown Voltage	VCEO	30	V
Emitter-Collector Breakdown Voltage	VECO	5	V
Collector Current	IC	10	mA
Collector Dissipation	PC	50	mW
Operating Temperature	TOPR	-25 ~ +100	°C
Storage Temperature	TSTG	-30 ~ +125	°C
Soldering Temperature*	TSOL	265	°C

\* Soldering condition must be completed within 3 seconds at 265°C

Electro-Optical Characteristics [Ta=25°C typ.]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Photo Current	IL	VCE=5V, L=1000Lx	3	7		mA
Collector Dark Current	ID	VCE=5V			100	nA
Collector Emitter Satu. Voltage	VCE	Ic=2mA, L=1000Lx			0.2	V
Spectral Responsibility(Peak)	λP			900		nm
Half Angle of Sensitivity	θ1/2			±25		deg
Rise/Fall Time (10%~90%)	tr	RL=1KΩ, VCE=5V		20		us
	tf	Ic=1mA		20		us

