



## Peak Sensitivity Wavelength: 880nm

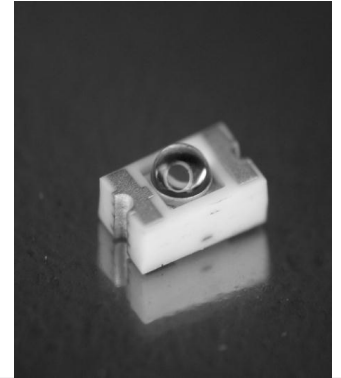
The PT060SMCP is a photo transistor in a SMD package. It is well suited for high reliability and high sensitivity applications.

### FEATURES

- > High Reliability in Demanding Environments
- > 3.5 x 2.0 SMD Package
- > Narrow Angular Response

### APPLICATIONS

- > Optical Switches
- > Edge Sensing
- > Smoke Detectors



## Absolute Maximum Ratings (Ta=25°C)

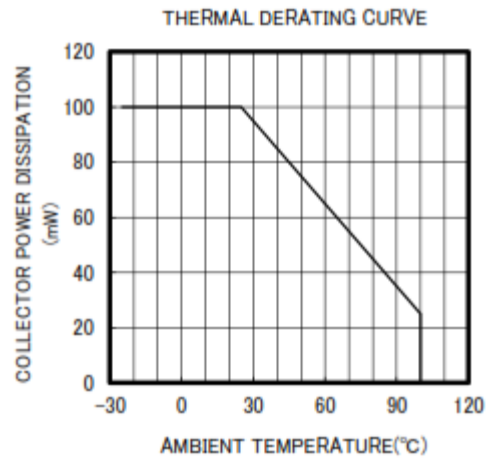
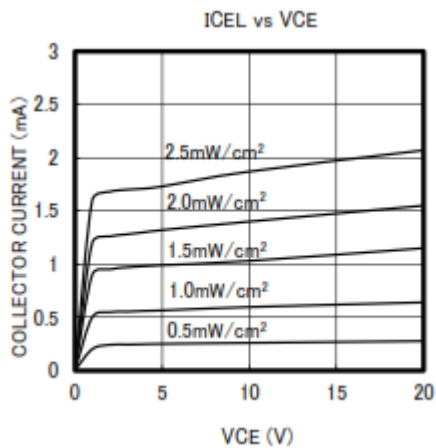
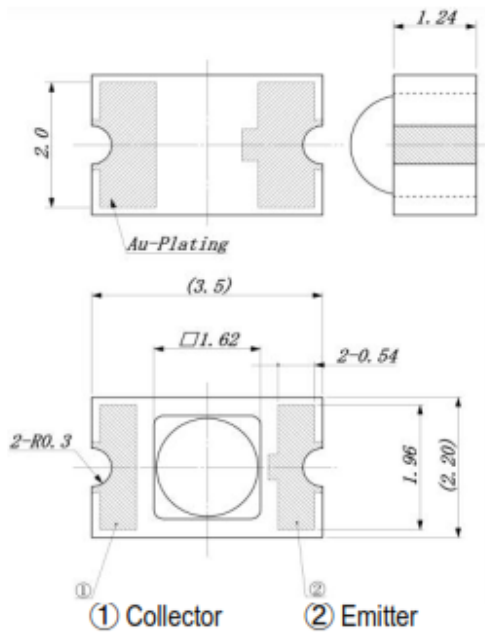


ITEMS	SYMBOL	RATINGS	UNIT
Collector-Emitter Voltage	V <sub>ceo</sub>	30	V
Emitter-Collector Voltage	V <sub>eco</sub>	5	V
Collector Current	I <sub>c</sub>	20	mA
Collector Power Dissipation	P <sub>c</sub>	100	mW
Operating Temperature Range	T <sub>opr</sub>	-25 ~ +100	°C
Storage Temperature Range	T <sub>stg</sub>	-30 ~ +125	°C
Soldering Temperature	T <sub>ls</sub>	260	°C

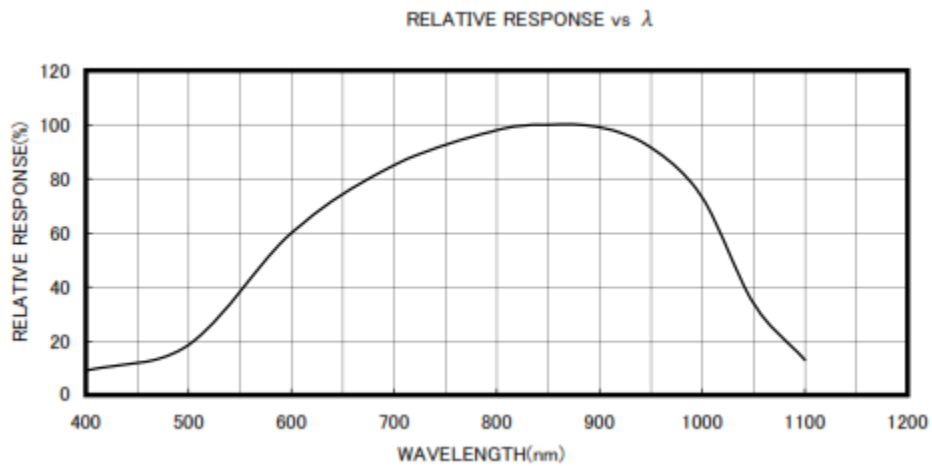
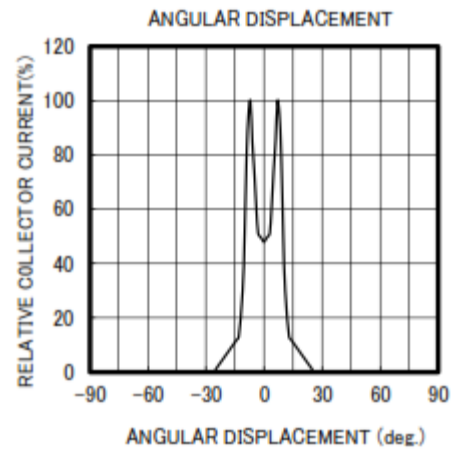
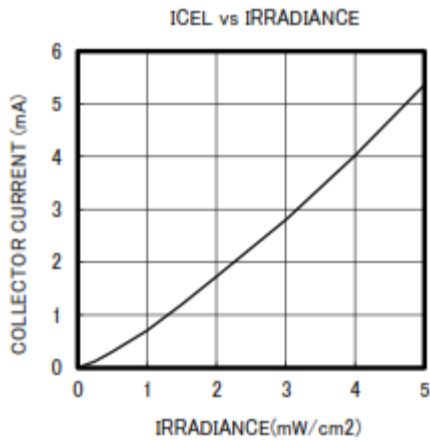
## Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Current	I <sub>cel</sub>	V <sub>ce</sub> =20V, E <sub>e</sub> =0.5mW/cm <sup>2</sup> *1	--	0.30	--	mA
Collector Dark Current	I <sub>ceo</sub>	V <sub>ce</sub> =20V, E <sub>e</sub> =0mW/cm <sup>2</sup> *1	--	--	100	nA
C-E Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> =0.2mA, E <sub>e</sub> =5mW/cm <sup>2</sup> *1	--	0.2	--	V
Spectral Sensitivity	λ	--	--	400~1100	--	nm
Peak Sensitivity Wavelength	λ <sub>p</sub>	--	--	880	--	nm
Switching Time (Rise Time)	T <sub>r</sub>	R <sub>L</sub> =100Ω, V <sub>ce</sub> =5V, I <sub>c</sub> =0.5mA	--	7	--	μS
Switching Time (Fall Time)	T <sub>f</sub>	R <sub>L</sub> =100Ω, V <sub>ce</sub> =5V, I <sub>c</sub> =0.5mA	--	5	--	μS
Angular Response	Θ	--	--	±10	--	deg

\*1: Color Temperature=2870°K Standard Tungsten Lamp.



Unit: mm, Tolerance: ±0.2



The information contained herein is subject to change without notice.

2021-10-08