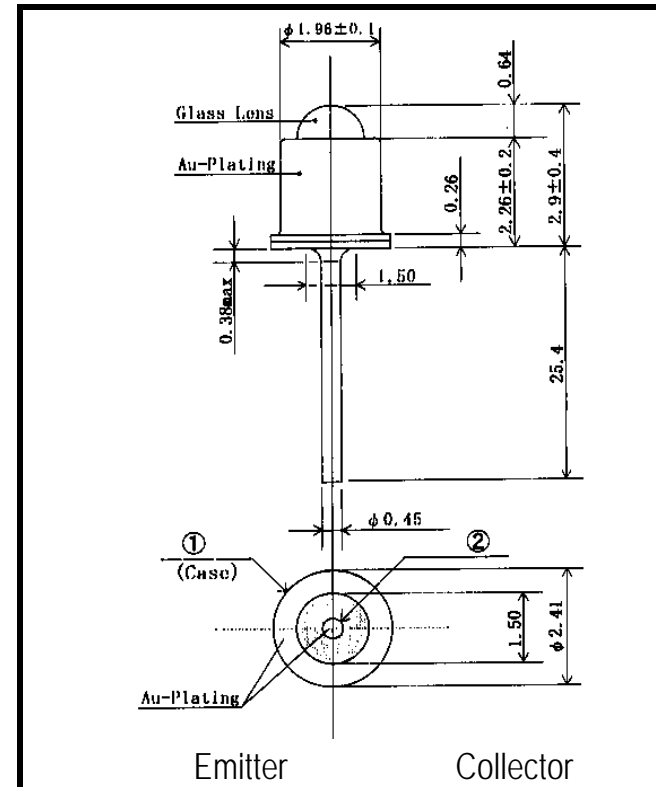


# PT060PT

# Photo Transistor

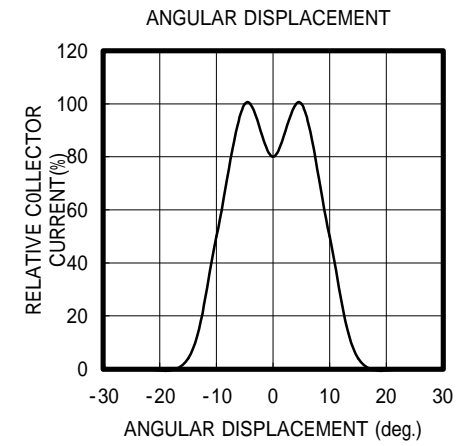
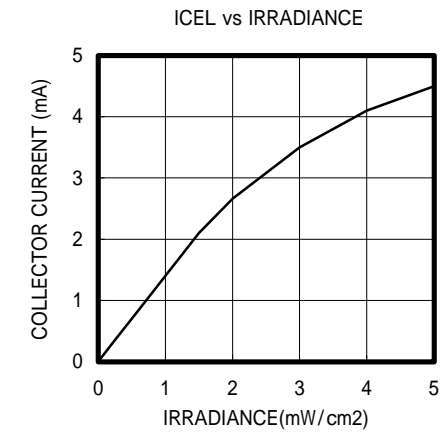
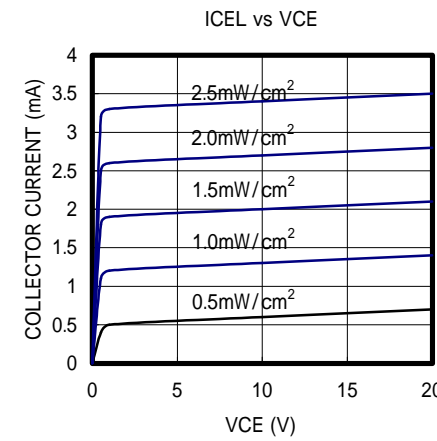


- FEATURES**
- High Reliability
  - Narrow Angular Response
  - Supper Compact (  $\phi$  2.0)
- APPLICATIONS**
- Optical Switches
  - Edge Sensing
  - Fiber Optical Communications
  - Smoke Detectors

## 2. ELECTRICAL & OPTICAL CHARACTERISTICS (Ta=25 °C)

ITEM	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>		0.7		mA
Collector Dark Current	I <sub>ceo</sub>	V <sub>ce</sub> =20V, E <sub>e</sub> =0mW/cm <sup>2</sup>			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>		0.2		V
Spectral sensitivity				400 ~ 1100		nm
Peak Sensitivity Wave Length	$\lambda_p$			880		nm
Switching time (Rise Time)	T <sub>r</sub>	R <sub>L</sub> =100 $\Omega$ , V <sub>ce</sub> =5V, I <sub>c</sub> =0.5mA		7.0		$\mu$ S
Switching time (Fall Time)	T <sub>f</sub>	R <sub>L</sub> =100 $\Omega$ , V <sub>ce</sub> =5V, I <sub>c</sub> =0.5mA		5.0		$\mu$ S
Angular Response				$\pm$ 10		deg

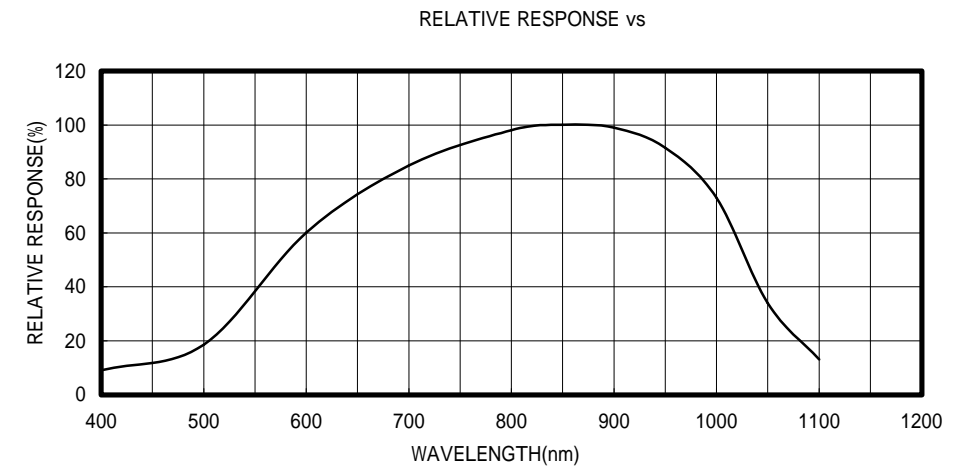
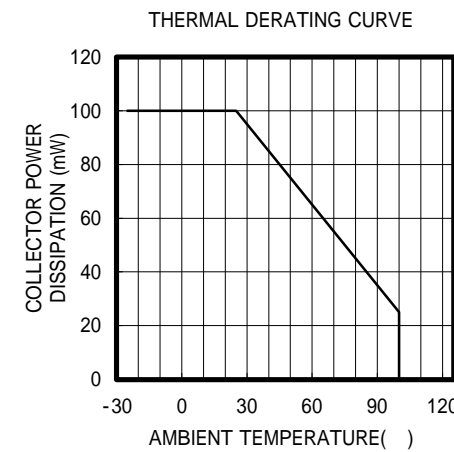
Color Temperature=2870°K Standard Tungsten Lump



## 1. ABSOLUTE MAXIMUM RATINGS (Ta=25 °C)

ITEM	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 Temp.	T <sub>opr</sub>	-25 TO 100	
Storage Temp.	T <sub>stg</sub>	-30 TO 125	
Junction Temp.	T <sub>j</sub>	125	
Lead Soldering Temp.*	T <sub>ls</sub>	260	

\*Time 5 Sec max, Position: Up to 3mm from the body



OPTRANS

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