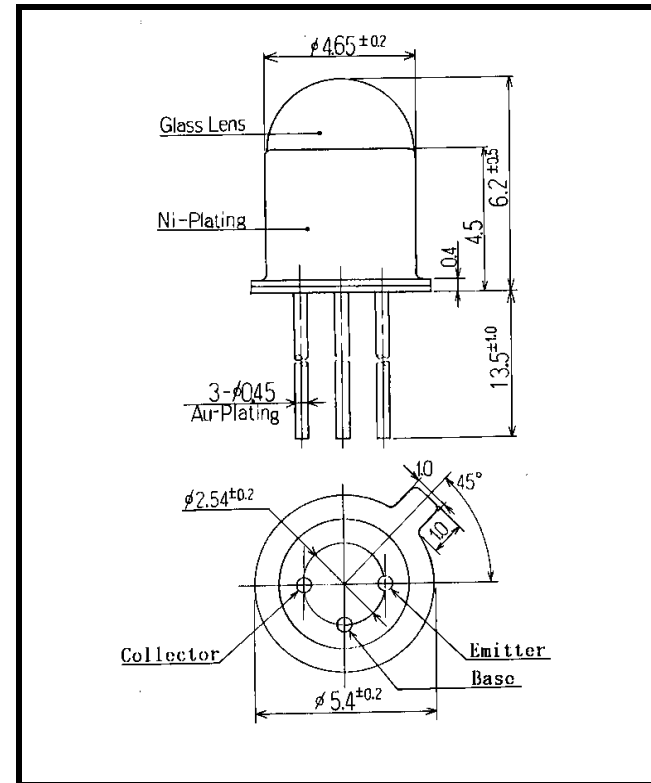
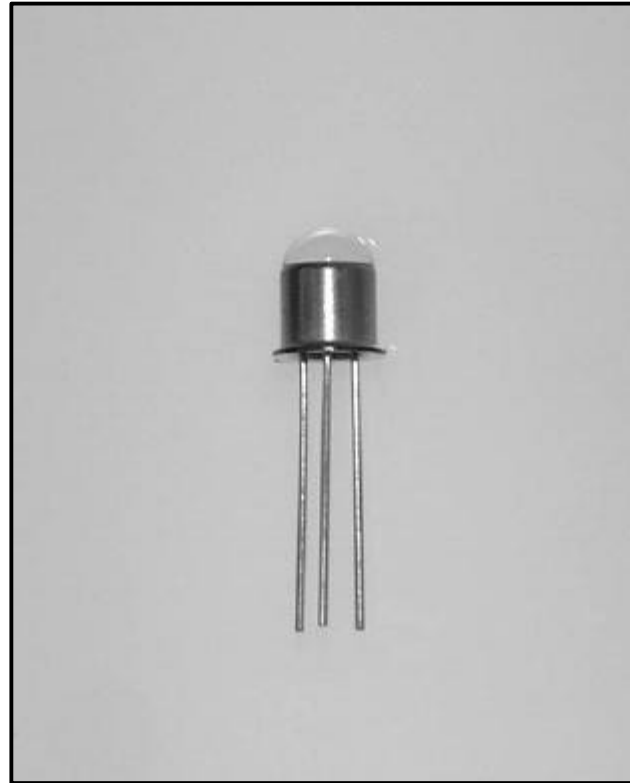


PT086N4

Photo Transistor



Dimensions (Unit:mm)

- FEATURES
- High Reliability
- APPLICATIONS
- Optical Switches
 - Optical Sensors
 - Edge Sensing
 - Smoke Detectors

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

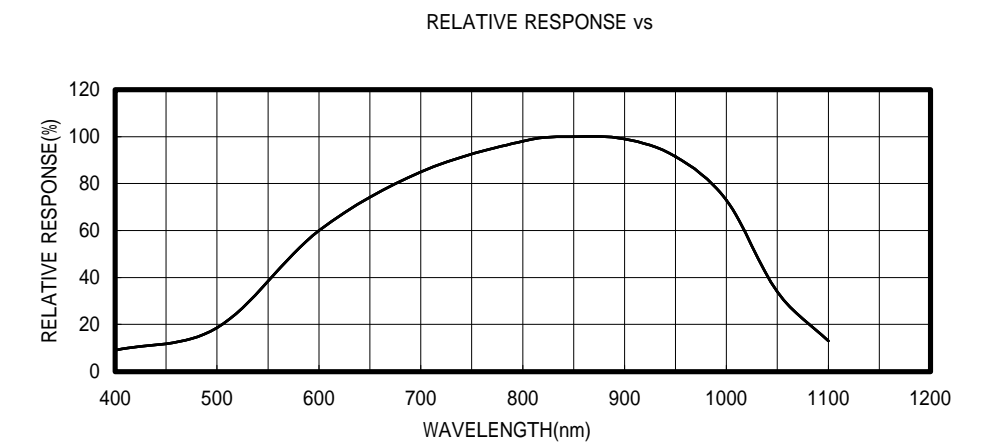
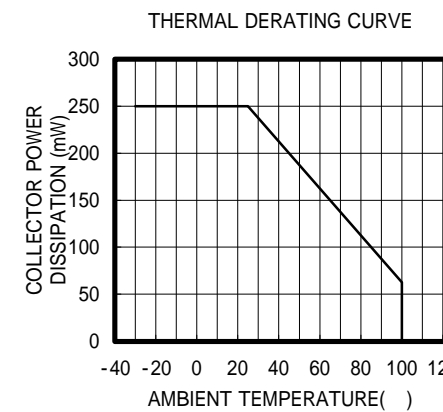
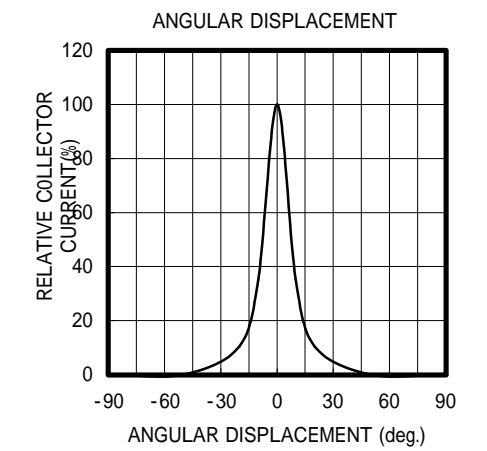
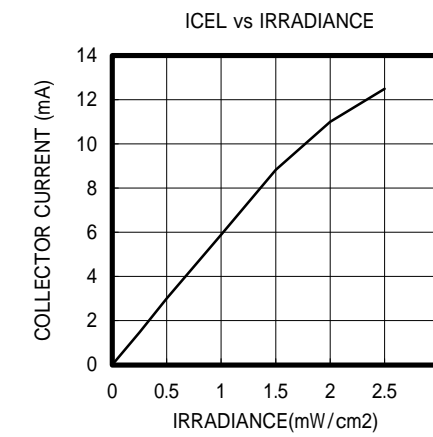
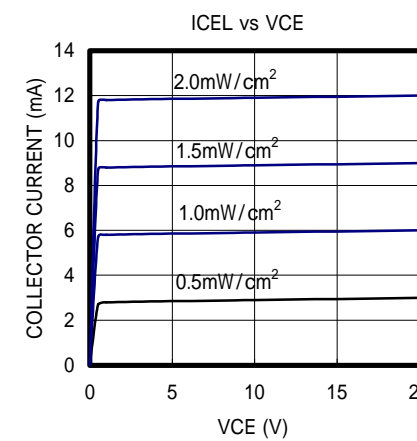
ITEM	SYMBOL	RATINGS	UNIT
Collector-Emitter Voltage	Vceo	30	V
Collector-Base Voltage	Vcbo	30	V
Emitter-Base Voltage	Vebo	5	V
Emitter-Collector Voltage	Veco	5	V
Collector Current	Ic	50	mA
Collector Power Dissipation	Pc	250	mW
Operating Temp.	Topr	-30 TO 100	
Storage Temp.	Tstg	-40 TO 125	
Junction Temp.	Tj	125	
Lead Soldering Temp.*	Tls	260	

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

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

ITEM	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Current	Icel	Vce=20V, Ee=0.5mw/cm ²		3.0		mA
Collector Dark Current	Iceo	Vce=20V, Ee=0mw/cm ²			100	nA
C-E Saturation Voltage	VCE(sat)	Ic=0.2mA, Ee=5mw/cm ²		0.2		V
Spectral sensitivity				400 ~ 1100		nm
Peak Sensitivity Wave Length	p			880		nm
Switching time (Rise Time)	Tr	RL=100 , Vce=5V, Ic=0.5mA		10.0		μS
Switching time (Fall Time)	Tf	RL=100 , Vce=5V, Ic=0.5mA		10.0		μS
Angular Response				±12		deg

Color Temperature=2870°K Standard Tungsten Lump



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