Marktech Optoelectronics

Photo Transistor

Product No: **MTD8600N4-T**

Peak Sensitivity Wavelength: 880nm

The MTD8600N4-T is a photo transistor in a TO-18 metal can dome top package. It is well suited for high reliability and high sensitivity applications.



FEATURES

> High Reliability in Demanding Environments
> Narrow Angular Response
> Metal Can Package
> Compact

APPLICATIONS

> Optical Switches
> Edge Sensing
> Fiber Optical Communications
> Smoke Detectors

Absolute Maximum Ratings (Ta=25°C)

ITEMS	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 Temperature Range	Topr	-30 ~ +100	°C
Storage Temperature Range	Tstg	-40 ~ +125	°C
Junction Temperature	Tj	125	°C
Lead Soldering Temperature*1	Tls	260	°C

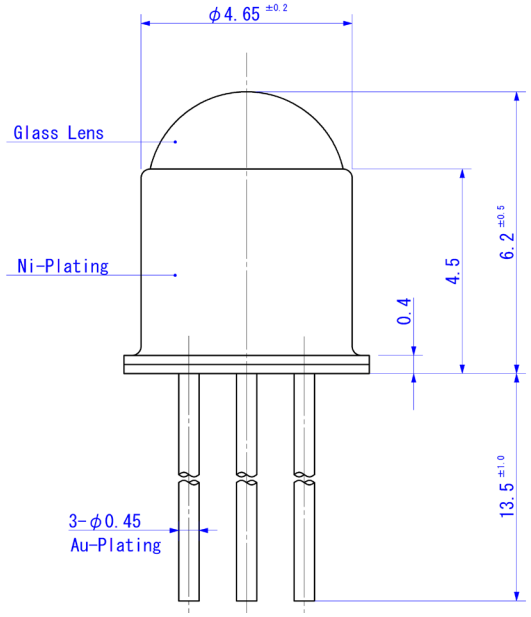
*1: Time 5 Sec max, Position: Up to 3mm from the body.

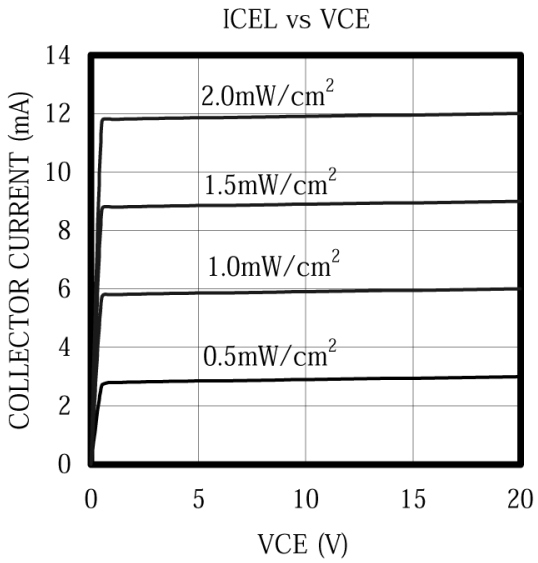
Electrical & Optical Characteristics (Ta = 25°C)

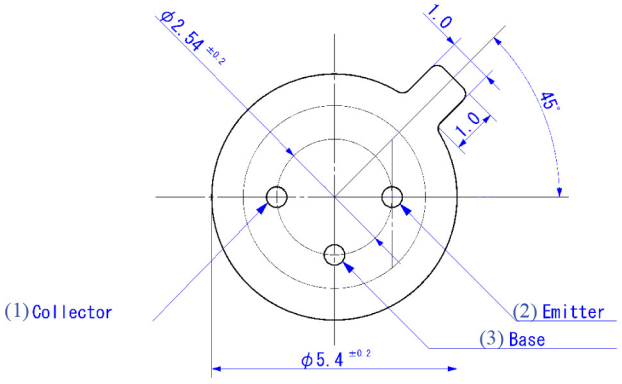
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Current	Icel	Vce=20V, Ee=0.5mW/cm^2 *1	--	3.0	--	mA
Collector Dark Current	Iceo	Vce=20V, Ee=0mW/cm^2 *1	--	--	100	nA
C-E Saturation Voltage	VCE(sat)	Ic=0.2mA, Ee=5mW/cm^2 *1	--	0.2	--	V
Spectral Sensitivity	λ	--	--	400~1100	--	nm
Peak Sensitivity Wavelength	λp	--	--	880	--	nm
Switching Time (Rise Time)	Tr	RL=100Ω, Vcc=5V, Ic=0.5mA	--	10.0	--	μS
Switching Time (Fall Time)	Tf	RL=100Ω, Vcc=5V, Ic=0.5mA	--	10.0	--	μS
Angular Response	Θ	--	--	±12	--	deg

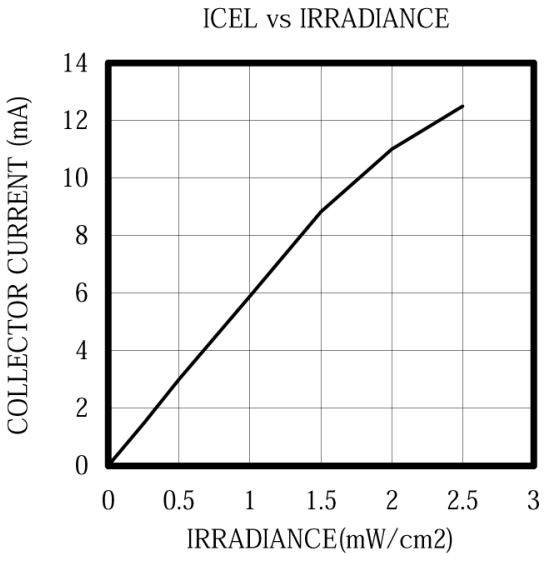
*1: Color Temperature=2870°K Standard Tungsten Lamp.

2011-08-08



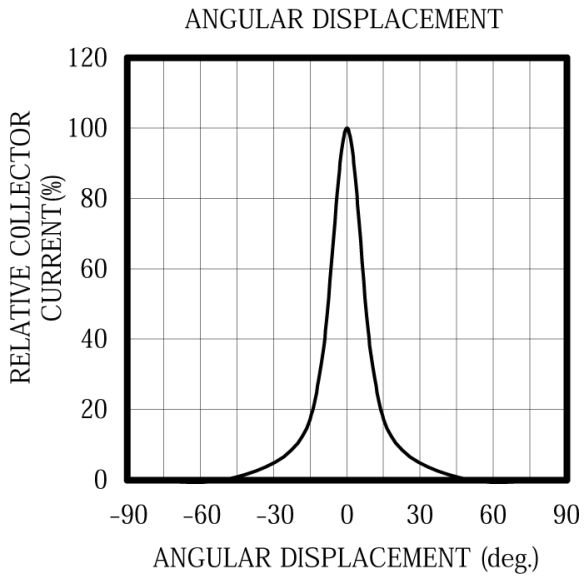


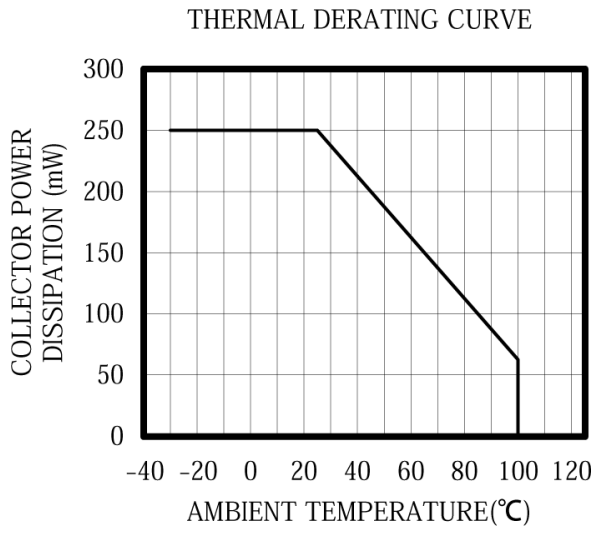


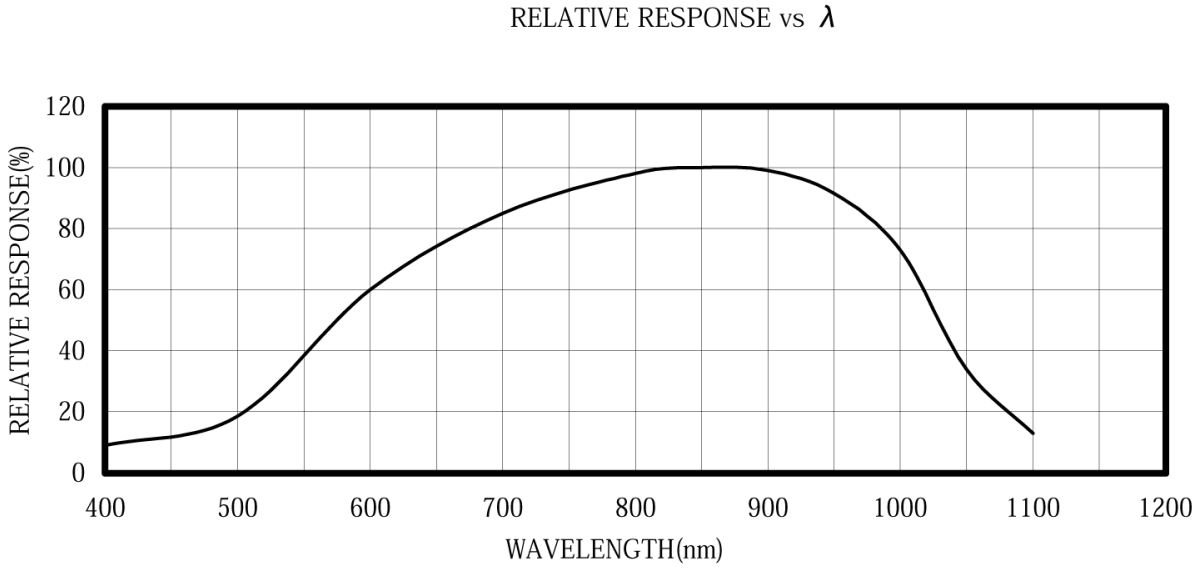


Unit: mm, Tolerance: ±0.2

2011-08-08







The information contained herein is subject to change without notice.

2011-08-08

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Marktech Optoelectronics:

MTE8008N3 MTPD3001D5-030 MTPS3085WC1 MTD6000PT-T MTE4110D4 MTE6114C2 MTSM5416SMR2S MTE4600P-C MTE8600N2 MTPD1346D-010 MTSM6414SMR2S MTE7063NK2-UR MTRS0012C MTRS7010C MT2118-G-A MT5470E-OR MTE1300N MTE8560P-C MTE8800W MTPS3085SMR1-IR MTAPD-06-001 MTE325H21-UV MTE8800N1 MTE340F11-UV MTE8600MC MTAPD-06-009 MTD3910G-F3 MTD3910W MTE340F13-UV MTE4110C5