

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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Product No: MTD8600N-T

## Peak Sensitivity Wavelength: 880nm

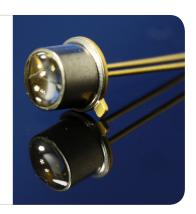
The MTD8600N-T is a photo transistor in a TO-18 metal can domed package. It is well suited for high reliability and high sensitivity applications.

### **FEATURES**

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

#### **APPLICATIONS**

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



Absolute Maximum Ratings (Ta=25°C)					
ITEMS	SYMBOL	RATINGS	UNIT		lead-free
Collector-Emitter Voltage	Vceo	30	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	TIs	260	°C		

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

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

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ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Current	Icel	Vce=20V, Ee=0.5mW/cm2 *1		3.0		mA
Collector Dark Current	Iceo	Vce=20V, Ee=0mW/cm <sup>2</sup> *1			100	nA
C-E Saturation Voltage	VCE(sat)	Ic=0.2mA, Ee=5mW/cm2 *1		0.2		V
Spectral Sensitivity	λ			400~1100		nm
Peak Sensitivity Wavelength	λρ			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

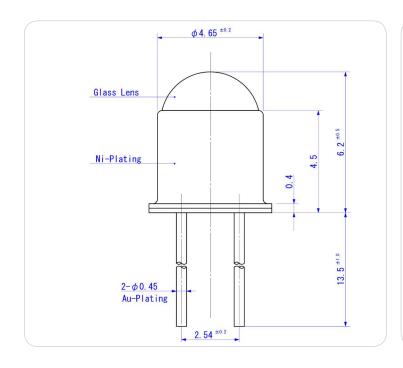
\*1: Color Temperature=2870°K Stardard Tungsten Lamp.

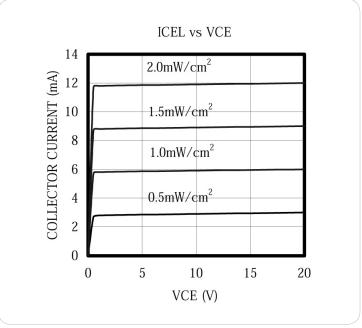
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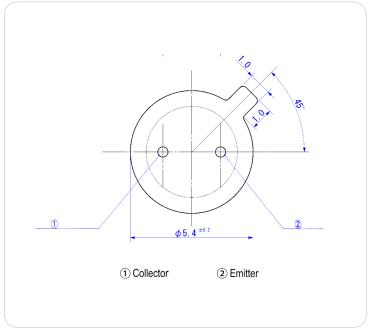


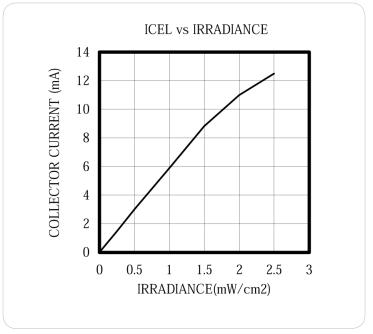
Optoelectronics

Product No: MTD8600N-T



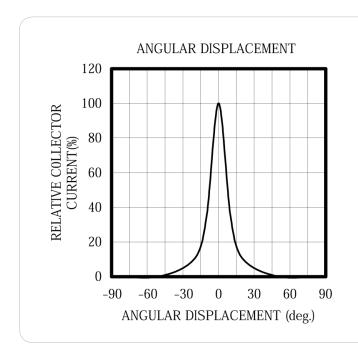


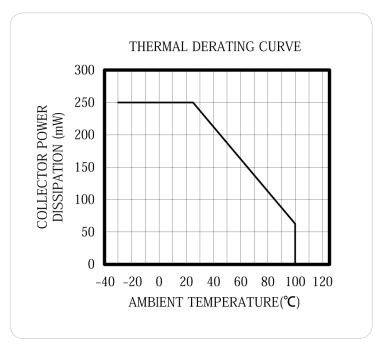


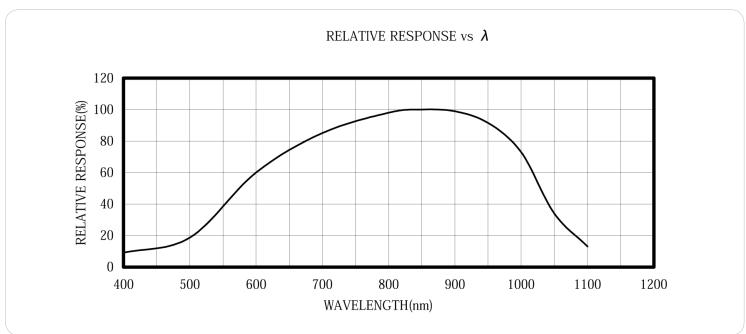


Unit: mm, Tolerance: ±0.2









The information contained herein is subject to change without notice.

2011-07-19