

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!



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Product No: MTD5010W

Peak Sensitivity Wavelength: 850nm

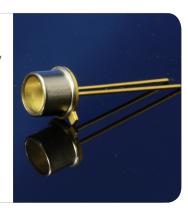
The MTD5010W is a photo diode in a TO-18 metal can flat top package. It is well suited for high reliability and high speed applications.

FEATURES

- > Ultra High Speed
- > Low Dark Current / Metal Can Package
- > Wide Angular Response
- > High Reliability in Demanding Environments

APPLICATIONS

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



Absolute Maximum Ratings (Ta=25°C)				
SYMBOL	RATINGS	UNIT		lead-free R
VR	30	V		
PD	100	mW		
Topr	-30 ~ +100	°C		
Tstg	-40 ~ +125	°C		
Tj	100	°C		
Tls	260	°C		
	SYMBOL VR PD Topr Tstg Tj	SYMBOL RATINGS VR 30 PD 100 Topr -30 ~ +100 Tstg -40 ~ +125 Tj 100	SYMBOL RATINGS UNIT VR 30 V PD 100 mW Topr -30 ~ +100 °C Tstg -40 ~ +125 °C Tj 100 °C	SYMBOL RATINGS UNIT VR 30 V PD 100 mW Topr -30 ~ +100 ℃ Tstg -40 ~ +125 ℃ Tj 100 ℃

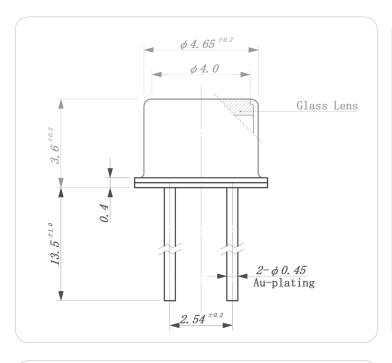
*1: Time 5 Sec max, Position: Up to 3mm from the body.

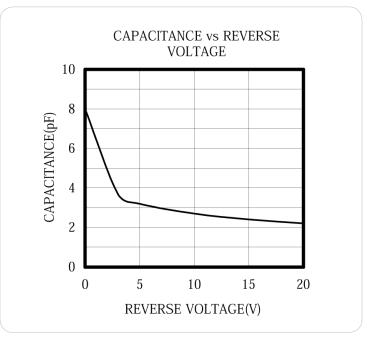
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT		
Light Current	IL	*1, *2		30		μΑ		
Dark Current	ID	VR=10V			5	nA		
Curve Factor	CF	Ee=5mW/cm ² *1	0.55					
Spectral Sensitivity	λ			400~1100		nm		
Peak Sensitivity Wavelength	λρ			850		nm		
Responsivity	Rt	VR=0V, λ=450nm		0.20		A/W		
Responsivity	Rt	VR=0V, λ=900nm		0.55		A/W		
Angular Response	Θ			±55		deg		
Response Time		RL=50Ω, Vr=20V		3.5		nS		
Junction Capacitance	Cj	at 1MHz, V=0V		8	15	pF		

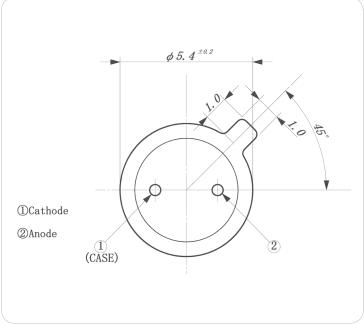
*1: Color Temperature=2870°K Stardard Tungsten Lamp, *2: VR=10V, Ee=5mW/cm².

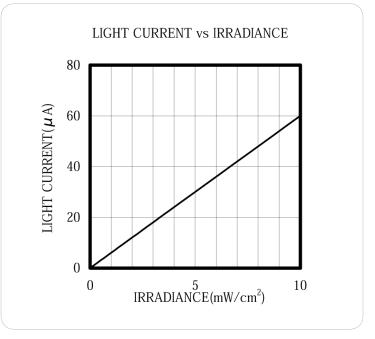
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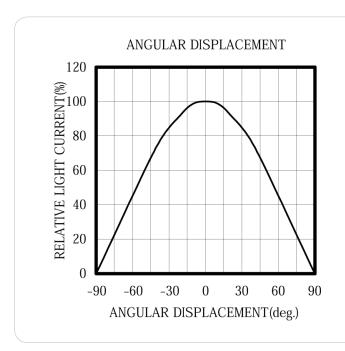


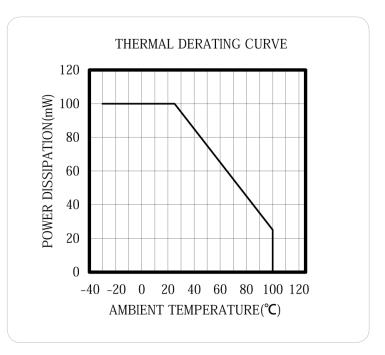


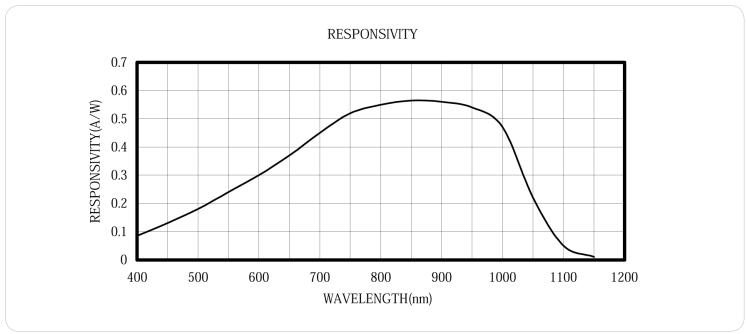


Unit: mm, Tolerance: ±0.2









The information contained herein is subject to change without notice.