



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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Peak Sensitivity Wavelength: 940nm

The MTD3910D3 is a photo diode in a water-clear 3mm plastic molded package. It is well suited for high reliability and high sensitivity applications. Custom package solutions and sorting are available.

FEATURES

- > High Light Current
- > Compact
- > Low Dark Current
- > Wide Angular Response

APPLICATIONS

- > Optical Switches / Sensors
- > Edge Sensing
- > Fiber Optical Communications



Absolute Maximum Ratings (Ta=25°C)



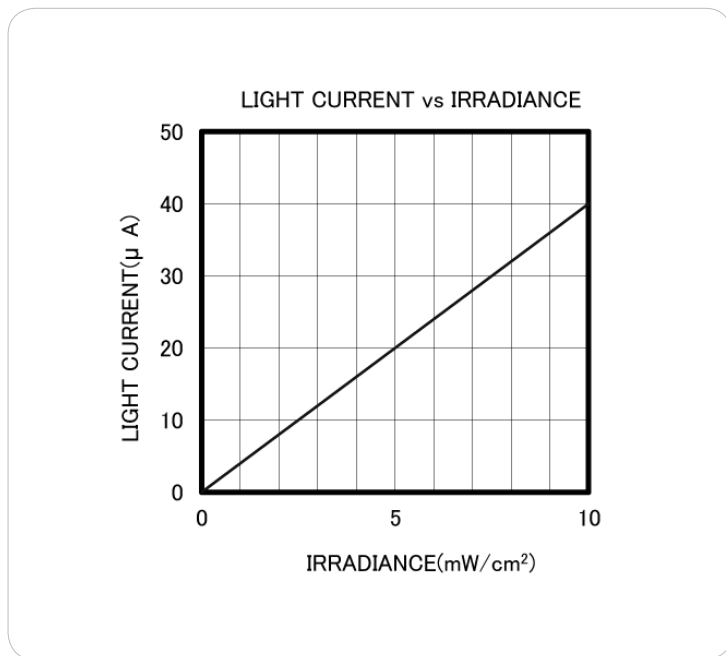
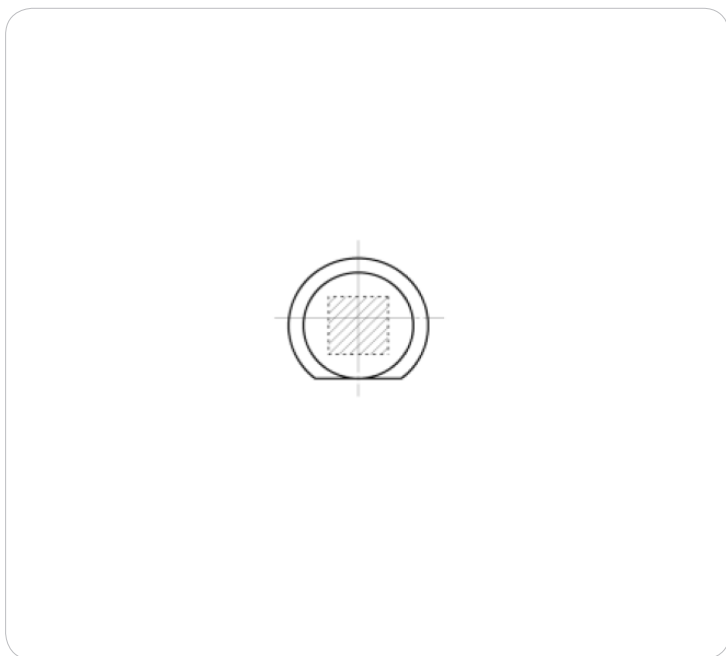
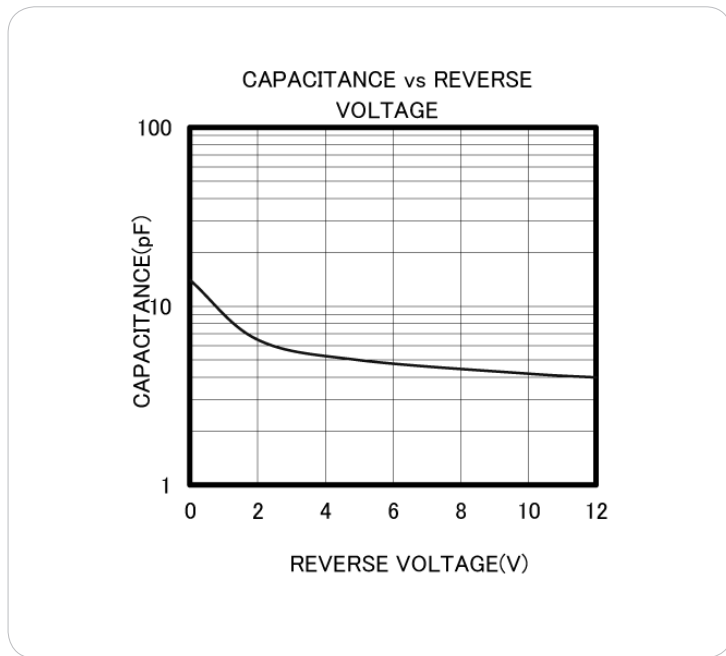
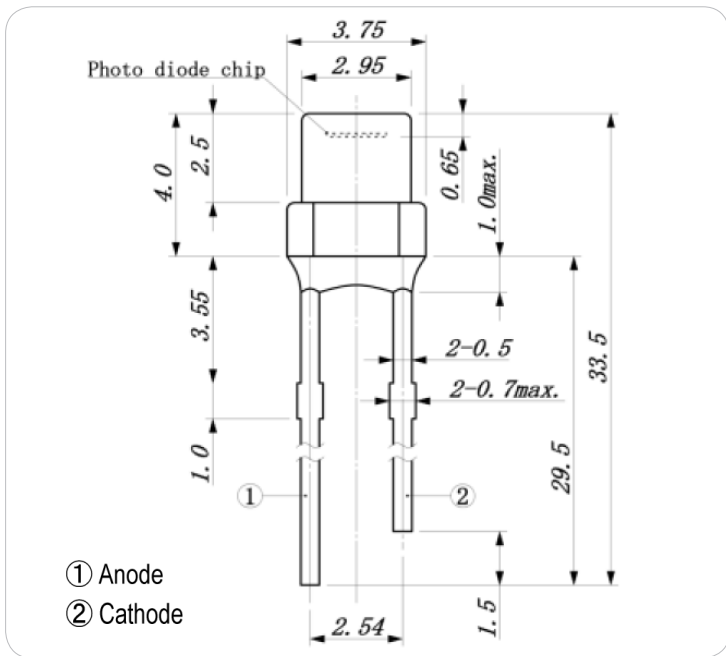
ITEMS	SYMBOL	RATINGS	UNIT
Reverse Voltage	VR	20	V
Power Dissipation	PD	50	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Junction Temperature	Tj	100	°C
Lead Soldering Temperature*1	Tls	260	°C

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

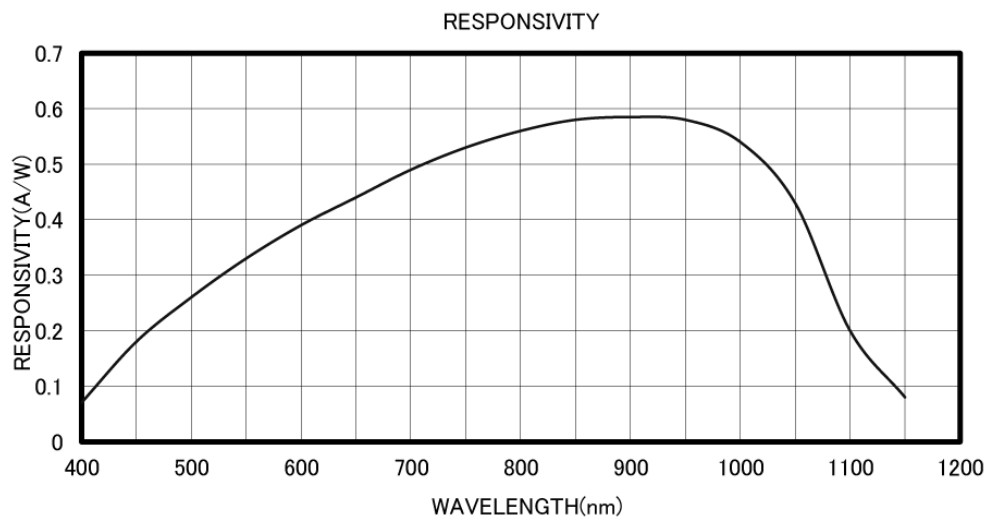
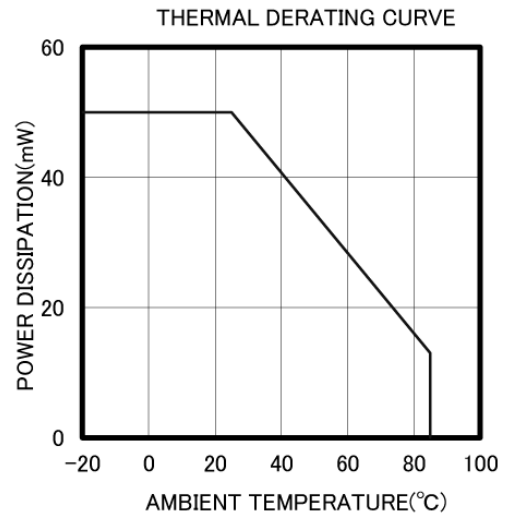
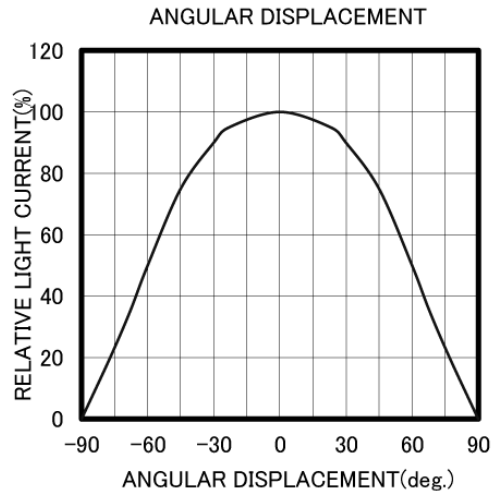
Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Light Current	IL	*1, *2	15	20	--	μA
Dark Current	ID	VR=10V	--	--	10	nA
Spectral Sensitivity	λ	--	400	--	1060	nm
Peak Sensitivity Wavelength	λp	--	--	940	--	nm
Responsivity	S	λ=660nm	--	0.45	--	A/W
Junction Capacitance	Cj	VR=2.5V, f=1MHz	--	6	12	pF

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



Unit: mm, Tolerance: ±0.2



The information contained herein is subject to change without notice.

2016-04-27