

## Peak Sensitivity Wavelength: 900nm

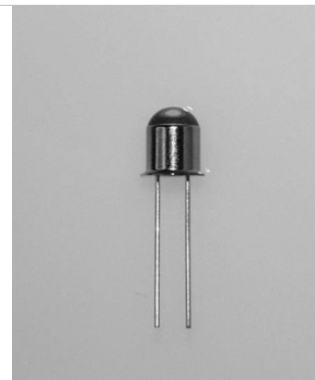
The MTD3910N is a photo diode in a TO-18 metal can package. It is well suited for high reliability and high sensitivity applications. Custom package solutions and sorting are available.

### FEATURES

- > Low Light Current
- > Linearity of  $E_e$  vs  $I_L$
- > Narrow Angular Response
- > High Reliability in Demanding Environment

### APPLICATIONS

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



## Absolute Maximum Ratings (Ta=25°C)



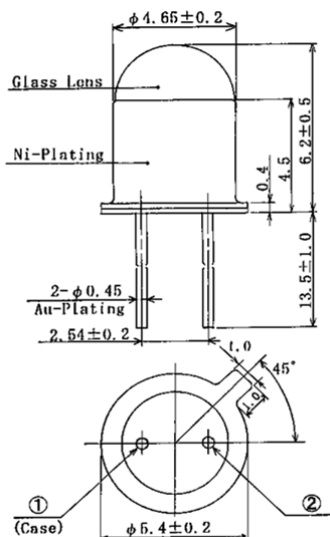
ITEMS	SYMBOL	RATINGS	UNIT
Reverse Voltage	VR	30	V
Power Dissipation	PD	100	mW
Operating Temperature Range	Topr	-30 to 100	°C
Storage Temperature Range	Tstg	-40 to 125	°C
Junction Temperature	Tj	125	°C
Lead Soldering Temperature*1	Tls	260	°C

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

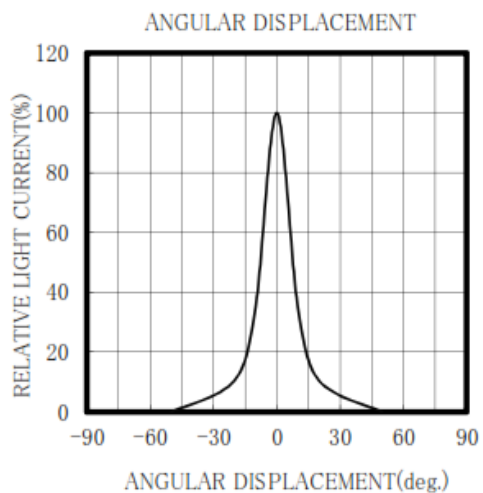
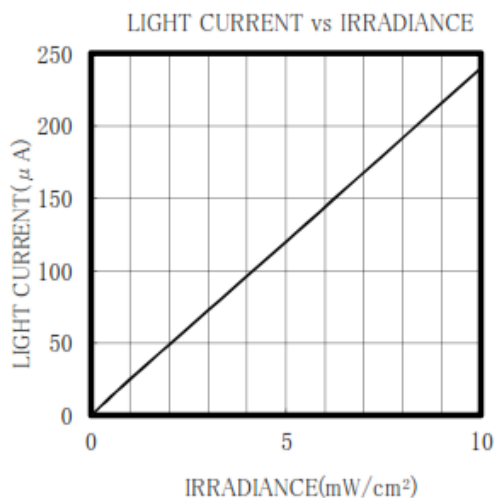
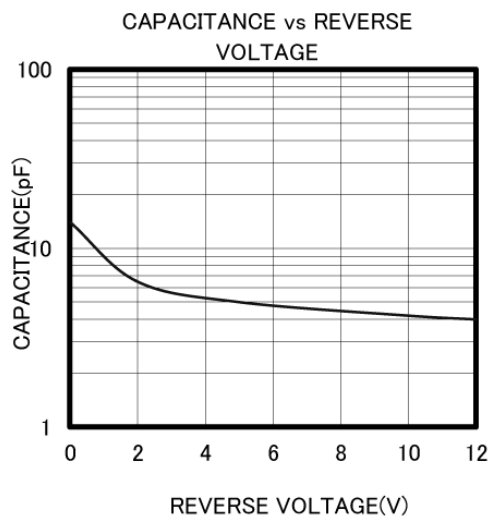
## Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Light Current	$I_L$	*1, *2	--	120	--	$\mu A$
Dark Current	$I_D$	VR=10V	--	--	10	nA
Spectral Sensitivity	$\lambda$	--	400	--	1060	nm
Peak Sensitivity Wavelength	$\lambda_p$	--	--	900	--	nm
Responsivity	S	VR=0V, $\lambda=900$	--	0.58	--	A/W
Junction Capacitance	Cj	VR=2.5V, f=1MHz	--	6	12	pF

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

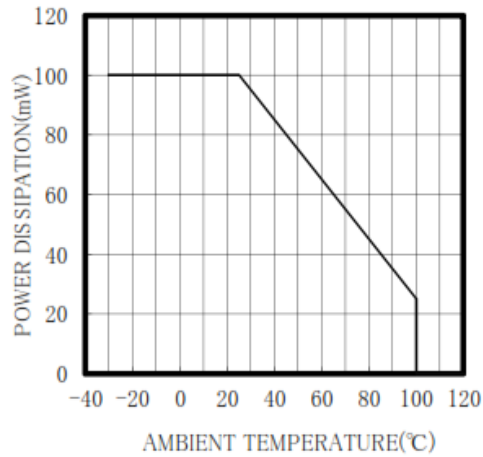


① Cathode      ② Anode

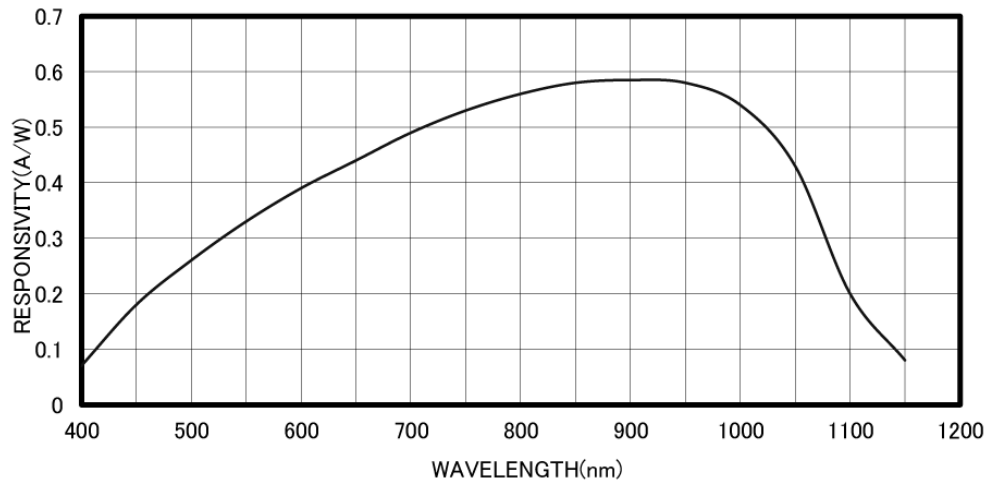


Unit: mm, Tolerance:  $\pm 0.2$

THERMAL DERATING CURVE



RESPONSIVITY



The information contained herein is subject to change without notice.

2018-02-12

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Photodiodes](#) category:*

*Click to view products by [Marktech](#) manufacturer:*

Other Similar products are found below :

[LTR-526AD](#) [OED-SP-7L](#) [LTR-536AB](#) [LTR-743DBM1-TA](#) [67-21SYGC-S349-TR8](#) [SFH 2200 A01](#) [HFD3081-108-XBA](#) [BPW 34 S E9601](#)  
[SFH 2713](#) [SFH 2703](#) [LTR-546AD](#) [BPV23FL](#) [BPW 34 FAS](#) [BPW 34 FS](#) [IG17X1000S4I](#) [IG22X250S4I](#) [VTD205H](#) [VTD205KH](#)  
[VTP1232FH](#) [VTP4085H](#) [SFH 2400](#) [OP913WSL](#) [OPF794](#) [PD70-01C/TR7](#) [LTR-536AD](#) [VTP8651H](#) [VTD206KH](#) [VTB1013H](#) [BPV23NF](#)  
[OP905](#) [LTR-516AD](#) [BPW 34 FS-Z](#) [VTD34FH](#) [QSB34CGR](#) [SFH 2500 FA](#) [PD15-22C/TR8](#) [VEMD5510C](#) [SFH 2200](#) [VEMD5510CF](#)  
[SAH230M](#) [SAH230M2](#) [SAH500M2](#) [MTAPD-07-010](#) [BP 104 FS](#) [BPV22F-AS12](#) [BPW 21](#) [BPW 34 SR-Z](#) [BPX 65](#) [HSDL-5400#011](#) [BPW](#)  
[34 FASR](#)