3mm Large active area InGaAs Photodiode



Description:

Large area, high sensitivity photo-diode for use in infrared instrumentation and sensing applications. High spectral response in the region 900 nm to 1700 nm. The photosensitive area is 3 mm in diameter. Planar-passivated device structure.

Features:

- Top illumination planar PD
- Lager active diameter
- Low noise,High reliability

Optional:

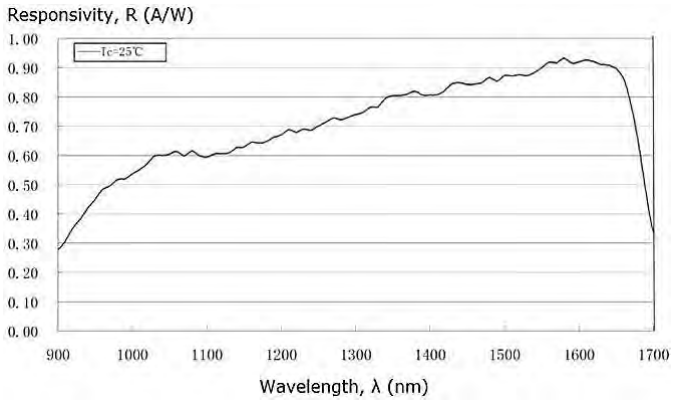
- Optical power meter
- Response spectrum testing
- Space light detect equipment

Specifications:

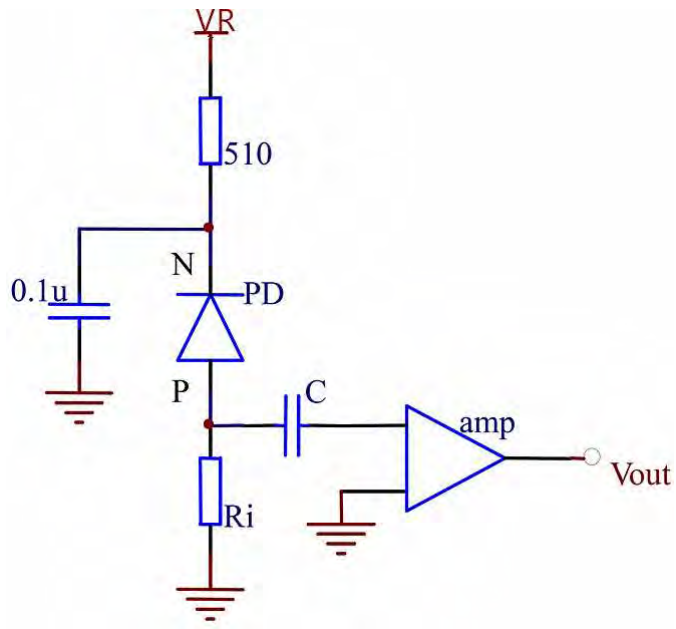
Tsub=25°C, CW bias unless stated otherwise

Parameters	Sym.	Test conditions	Min	Typ	Max	Unit
Response Spectrum	λ	-	900~1700			nm
Active diameter	φ	-	3000			um
Reponsivity	Re	λ=1.31μm,VR=5V,Pin =10μw	0.75			A/W
		λ=1.55μm,VR=5V,Pin=10μw	0.80			
Reverse breakdown voltage	VBR	I R =10μA	20			V
Dark current	ID	VR =5V			200	nA
Total capacitance	C	VR =5V f=1MHz			1.5	nF
Shunt impedance	RSh	VR =10mV	1			MΩ

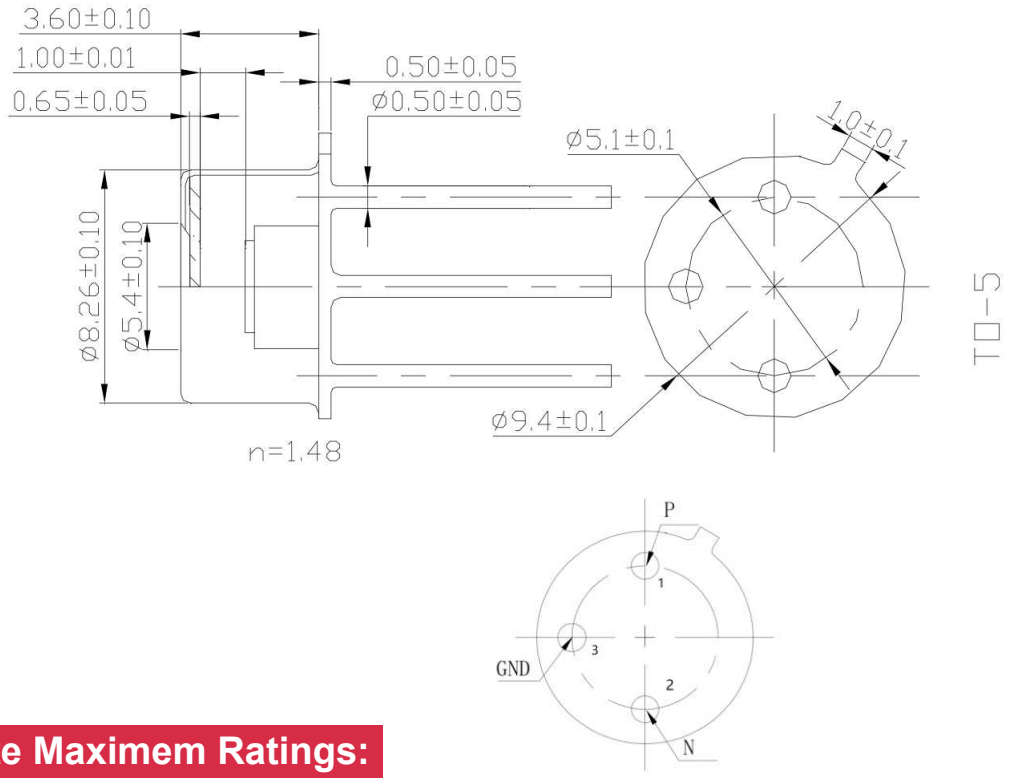
Typical characteristical curve:



Application electric circuit:



Dimensions and Pin definitions:



Absolute Maximem Ratings:

Operating voltage	10V	Operating temperature	-50~+100℃	Power dissipation	100mW
Forward current	10mA	storage temperature	-55~+125℃	Soldering temperature	260℃(10s)

Ordering Info:

PL-□□□□-蹋ARX-XX-TO (PL-1700-IG-AR3-FSA-TO)

□□□□: Cut off Wavelength

400: 400nm

900: 900nm

1700: 1700nm

2100: 2100nm

2400: 2400nm

2700: 2700nm

蹋 Material

IG: InGaAs

Si: Si

蹋 Active Area

1: 1mm

2: 2mm

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5: 5mm

XX: Package/Fiber and Connector Type

FSA=SMF-28E Fiber coupled+ FC/APC

FSP=SMF-28E Fiber coupled + FC/PC

FPP=PM Fiber Fiber coupled + FC/PC

FPA=PM Fiber Fiber coupled + FC/APC

TO: TO5Package