InGaAs PIN PHOTODIODES

Features

- "Æ75um active diameter.
- "High speed response.
- "Wide bandwidth from 1000~1600 nm.
- "High responsivity at 1310 nm.
- "Low dark current.
- "TO-46 hermetic packaging with a lens cap.

Applications

- "Optical communication system
 - --- Optical data links
 - --- Optical LANs
 - --- Subscriber loops

Handling and Safety Precautions

Anti-static protection, such as ionized air blowers or grounded wrist straps with a 1 mega series resistor, should be used at all times when handling laser diodes. In addition, soldering irons should be well grounded.

Overheating caused by soldering of the leads of a laser diode must be prevented. Recommend soldering iron temperature and maximum exposure time are below 260 °C and 10 seconds.



Description

The MCD-3P4C-312 is InGaAs PIN photodiode which has a sensitive area of **E**75um .The small photosensitive region will enable operation at low dark current and low capacitance, and yet large enough to allow efficient coupling to multi-mode fiber .

This product is designed for high speed and low noise applications and is suited to receive the light source from 1000~1600 nm.

The MCD-3P4C-312 is compatible with industry standard wave or hand solder processes.

Unity Opto Technology Co., Ltd. 10 F, No. 88-8, Sec. 1, Kuang-Fu Rd., Sanchung City, 241 Taipei, Taiwan For prototype and Production call TEL: 886 - 2 -2999 - 3988 FAX: 886 - 2 -2999 - 3910 REV::A1 7/17/2002

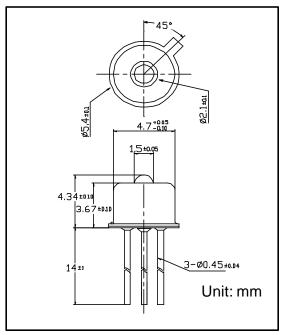


- Absolute Maximum Ratin	gs(1c = 25)	² C)	
Parameter	Symbol	Rated Value	Unit
Reverse Voltage	V	20	V
Forward Current	lF	2	mA
Reverse Current	IR	1	mA
Operating case temperature	Тор	- 40 to +85	°C
Storage temperature	T _{STG}	- 40 to +85	℃

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" Optical & Electrical Characteristics (Tc = 25 °C)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Active Area			-	75	-	ìm
Detection Range			1000	1310	1600	nm
Responsivity	R	V _R =5V,ë=1300nm	0.75	0.85	-	A/W
Dark Current	ld	V _R =5V	-	-	1	n A
Capacitance	С	V _R =5V,f=1MHZ	-	0.75	0.9	РF
Bandwidth	BW	V _R =5V,P=1mW	2	-	-	GHZ



Package Dimensions

PD(-) ØZ.54±0.2 3 PD (+) 2 366 φ CASE PD (-) <1> (2) CASE PD (+) (3) Unit: mm Pin Connections (Bottom View)

NOTE: Specifications are subjected to change without notice.

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