

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.

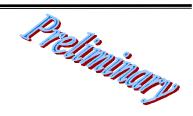
Applications

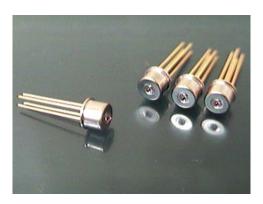
- "Optical communication system
- --- Optical data links
- --- Optical LANs
- --- Subscriber loops

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-332 is InGaAs PIN photodiode which has a sensitive area of Æ75um .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-332 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::A 6/5/2003

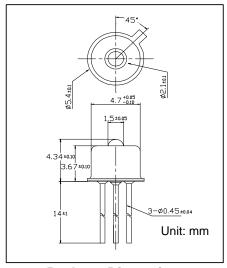


" Absolute Maximum Ratings (Tc = 25 °C)

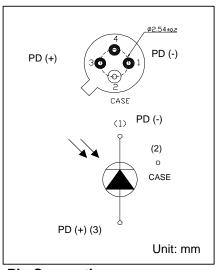
Absolute Maximum Ratings	(Tc = 25 °C))	4	D Kali
Parameter	Symbol	Rated Value	Unit	
Reverse Voltage	V	20	V	GIBLINE.
Forward Current	ΙF	2	mA	-5//
Reverse Current	I _R	1	mA	
Operating case temperature	Тор	- 40 to +85	°C	
Storage temperature	T _{STG}	- 40 to +85	∘C	

Optical & Electrical Characteristics (Tc = 25 °C)

Optical & Electrical Orial acteristics (10 = 25 0)									
Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit			
Active Area			-	75	-	um			
Detection Range			1000	1310	1600	nm			
Responsivity	R	$V_R=5V$, $\lambda=1300$ nm	0.85	•	-	A/W			
Dark Current	l _d	$V_R=5V$	-	ı	1.0	nA			
Capacitance	С	V _R =5V,f=1MHz	-	0.75	0.9	рF			
Bandwidth	BW	V _R =5V,P=1mW	1.5	-	-	GHz			



Package Dimensions



Pin Connections (Bottom View)

NOTE: Specifications are subjected to change without notice.

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