

MCD-3P4C-302

InGaAs PIN PHOTODIODES

Features

- "Æ100um 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

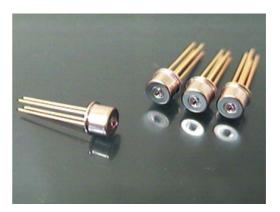
- "Optical communication system
 - --- Optical data links
 - --- Optical LANs
 - --- Subscriber loops

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-302 is InGaAs PIN photodiode which has a sensitive area of Æ100um .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-302 is compatible with industry standard wave or hand solder processes.

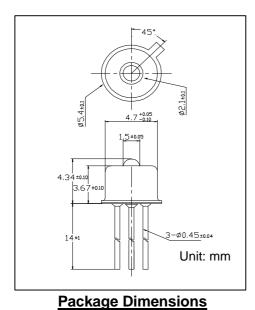
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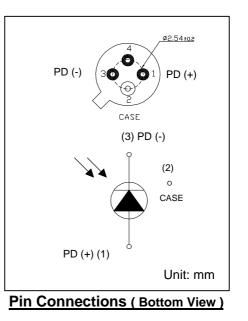


· Absolute Maximum Ratings	(Tc = 25 °C))		D Keli
Parameter	Symbol	Rated Value	Unit	- summe
Reverse Voltage	V	20	V	
Forward Current	١ _F	2	mA	
Reverse Current	I _R	1	mA	
Operating case temperature	Тор	- 40 to +85	°C	1
Storage temperature	T _{STG}	- 40 to +85	°C	

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

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Active Area			-	100	-	um
Detection Range			1000	1310	1600	nm
Responsivity	R	V _R =5V, λ =1300nm	0.8	0.85	-	A/W
Dark Current	l _d	V _R =5V	-	-	1.0	nA
Capacitance	С	V _R =5V,f=1MHz	-	1.0	1.4	РF
Bandwidth	BW	V _R =5V,P=1mW	2	-	-	GHz





NOTE: Specifications are subjected to change without notice.

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