UNi

MCD-3T4C-323

1.25 Gbps PIN-TIA (1310nm) 3.3V & 5V

Features

"1.25 Gbps typical bandwidth.

"InGaAs/InP PIN Detector with transimpedance amplifier in a TO-46 hermetic package.

"High sensitivity with AGC.

"Differential ended output

"+3.3V & +5V operation.

Applications

 Optical Communication Receiver / Transceiver

--- SONET OC-24/SDH STM-8

--- Gigabit Ethernet

--- Fiber Channel

should be well grounded.

Description

The MCD-3T4C-323 is a high performance 1310 nm InGaAs/InP PIN detector with transimpedanceamplifier .This product is designed for short and medium distance optical fiber communication.

The MCD-3T4C-323 is compatible with industry standard wave or hand solder processes.

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.

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

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" Absolute Maximum Ra	atings (Tc = 25 °C)
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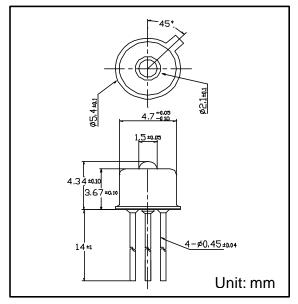
5 (,		
Parameter	Symbol	Rated Value	Unit
Voltage	V	6	V
Operating case temperature	Тор	- 40 to +85	°C
Storage temperature	T _{STG}	- 40 to +85	°C

" DC/ Electrical Characteristics (Tc = 25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Supply power	Vcc	3.0	-	5	V
Differential Output Voltage	Vd	-	-	0.33	V
Supply current (no load)	lcc	-	-	45	mA

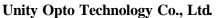
"AC/ Optical & Electrical Characteristics (Tc = 25 °C)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Detection Range			1100	1310	1650	nm
Active Area			-	75	-	ìm
Gain@10Mbs Differential	G	ë =1300nm	-	8.3	-	V/mW
Bandwidth	BW		850	-	-	MHz
Saturation Power	Psat	ë =1300nm	-3	0	-	dBm
Sensitivity	Sens	BER=10 ⁻¹⁰ @1.25Gbps	-	-24	-21	dBm
Output Resistance	Rout		-	50	-	ohm
Operation Speed			-	1.25	-	Gbps

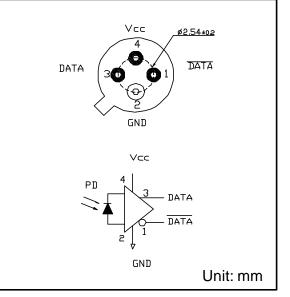


Package Dimensions

NOTE: Specifications are subjected to change without notice.



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Pin Connections (Bottom View)

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