

Mini N Package InGaAs PIN Photodiode

All AC Photonics' products are Telcordia qualification tested.



PERFORMANCE SPECIFICATIONS

Parameter	Specifications				
	Symbol	Test Conditions	Min.	Typ.	Max.
Operating Wavelength	λ	-	1000nm		1650nm
Dark Current	ID	$V_R=5V, E_e=0 (+25^\circ C)$		0.20nA	1.0nA
		$V_R=5V, E_e=0 (+63^\circ C)$			1.0nA ¹⁾
Responsivity	Re	$V_R=5V, \lambda=1310nm$	0.80A/W	0.85A/W	
Responsivity	Re	$V_R=5V, \lambda=1550nm$	0.85A/W	0.90A/W	
Return Loss	RL	$P=100\mu W, \lambda=1550nm$			-40dB
Capacitance	C	$f=1MHz, \text{Case grounded}$ $V_R=5V, E_e=0$		1.2pF	1.4pF
Operating voltage	Vopr			-5V	-15V
Package Dimension	See "MECHANICAL DIMENSIONS"				

FEATURES

- Planar Semiconductor Design and Dielectric Passivation
- 2-pin Coaxial Mini N Packaging, SM Pigtail.
- Superior Noise and Photoelectric Performance .
- Hermetical Packaging and 100% Purge Burn-in

APPLICATION

- Optical Fiber Communication System

Note: 1. Sample Test

ABSOLUTE MAXIMUM RATINGS(T=25°C)

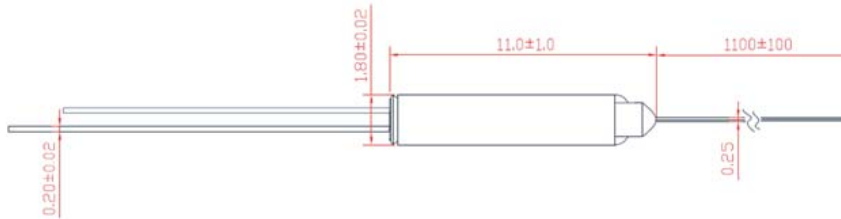
Parameter	Min.	Typ.	Max.
Input Optical power			10dBm
Fiber Bend Radius	30mm		
Reverse Voltage			25V
Forward Current			10mA
Reverse Current			5mA
Operating Temperature	-40°C		+85°C
Storage Temperature	-40°C		+85°C
Lead Solder Temperature			+260°C
Lead Solder Duration			10s

Note: 1. ESD protection is imperative. It is recommended to use grounding straps, anti-static mats and other EDS protective equipment when handling or testing a photodiode device.

2. Please shorten the length of device leads as much as possible.

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MECHANICAL DIMENSIONS



PORT CONFIGURATIONS



ORDERING INFORMATION

PTD	Operating Wavelength	Mounting Style	Package	Fiber Type*	Pigtail Style	Fiber Length	Connector
	35=1000 - 1650nm	2=Without mount flange	N=Mini N Package	2=SMF-28 Ultra (G.657.A1) 3=ClearCurve ZBL(G.657.B3)	0=Free space 1=Bare fiber 6=900um tight buffer	00=Free space 05=0.5m 10=1.0m . . . 20=2.0m	0= None 1= FC/APC 2= FC/PC 3= SC/APC 4= SC/PC 5= ST 6= LC/UPC 7= LC/APC

*1=SMF-28(G.652) is available upon request.

RELATED PRODUCTS

[InGaAs PIN Photodiode](#)

[High Linearity InGaAs PIN Photodiode](#)

[High Speed 800nm-900nm PIN Photodiode](#)

[Mini InGaAs PIN Photodiode](#)

[Tap PD](#)