



# Mini InGaAs PIN Photodiode

All AC Photonics' products are Telcordia qualification tested.

## PERFORMANCE SPECIFICATIONS

Parameter	Specifications				
	Symbol	Test Conditions	Min.	Typ.	Max.
Operating Wavelength	$\lambda$	-	1000nm		1650nm
Dark Current	ID	VR=5V, Ee=0		0.20nA	1.0nA
Responsivity	Re	VR=5V, $\lambda$ =1310nm	0.85A/W	0.90A/W	
Responsivity	Re	VR=5V, $\lambda$ =1550nm	0.90A/W	0.95A/W	
Capacitance	C	f=1MHz, Case grounded VR=5V, Ee=0		5.0pF	6.0pF
Operating Voltage	Vopr	-		-5V	-15V
Rise & Fall Time	Tr & Tf	-5V			3ns
Package Dimension		See "MECHANICAL DIMENSIONS"			

All parameters are measured under 25°C.

## FEATURES

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

## APPLICATION

Optical Fiber Communication System

## ABSOLUTE MAXIMUM RATINGS(T=25°C)

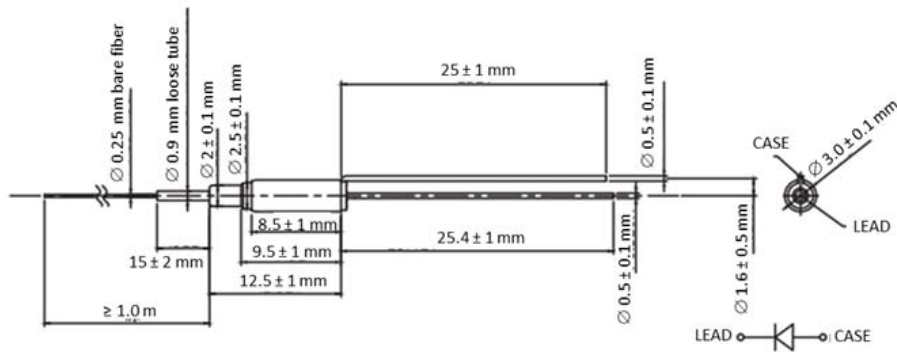
Parameter	Mini		
	Min.	Typ.	Max.
Type			
Reverse Voltage			25V
Forward Current			10mA
Operating Temperature	-40°C		+85°C
Storage Temperature	-40°C		+85°C
Lead Solder Temperature			+260°C
Lead Solder Duration			10s

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.

- Fiber pigtail should be handled with less than 5N and with a bending radius greater than 30mm.
- Please shorten the length of device leads as much as possible.

## Mini InGaAs PIN Photodiode

### MECHANICAL DIMENSIONS



### PORT CONFIGURATIONS



## Mini InGaAs PIN Photodiode

### ORDERING INFORMATION

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Operating Wavelength	Mounting Style	Package	Fiber Type*	Pigtail Style	Fiber Length	Connector	
35=1000 - 1650nm	2=Without mount flange	M=Mini 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.