

1550nm Mini SM Pigtailed InGaAs PIN Photodiode

1550nm Mini SM Pigtailed InGaAs Photodiode is a semiconductor optoelectronic product designed for detecting light signal by transferring the light signal to electric signal, SM Pigtailed InGaAs Photodiode is built with InGaAs chip material and terminated with SM pigtail to detect the light with high responsibility and low dark current, it's widely used in fiber optic sensor and optic electric communication field, the pigtailed fiber can be customized upon request.

Application:

Fiber Communication
Fiber Optic Sensor
Computed Tomography
Testing System

Features:

High Response
Low Dark Current
Compact Package
High Reliability



Absolute Maximum Ratings:

Parameter	Symbol	Value	Unit
Reverse Voltage	V _r	12	V
Forward Current	I _f	10	mA
Operating Temperature	T	-40~+85	°C
Storage Temperature	T	-40~+85	°C
Solder Temperature	T	260	°C
Lead Solder Time		10	S

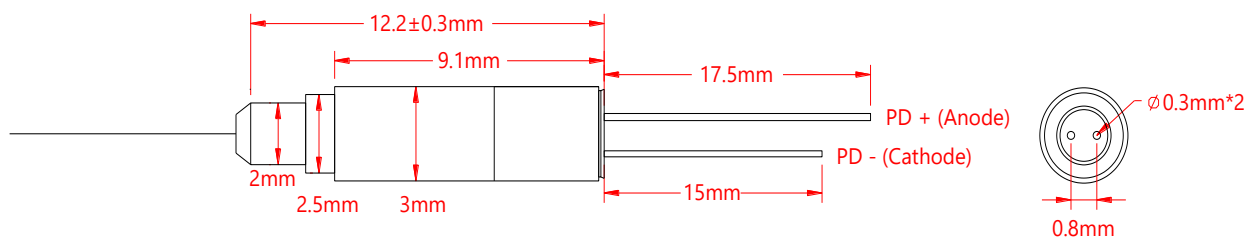
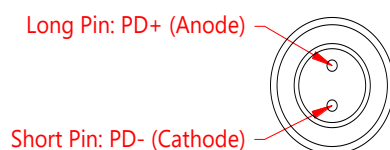
Notice: Above specifications should not be exceeded, or the Photodiode will be seriously damaged.

Optical and Electrical Specification:

Parameter	Symbol	Min.	Tpy.	Max.	Unit	Condition
Wavelength Range	λ	1100	1550	1650	nm	
Saturated Optical Power	P			10	mW	V _r =5V
Dark Current	I _d		0.03	0.16	nA	V _r =5V
Responsivity	λ=1310nm	R	0.80	0.85	A/W	
	λ=1550nm		0.85	0.90	A/W	
Operating Voltage	V _r		5		V	
Breakdown Reverse voltage	V _b			15	V	I _r =10uA
Frequency Bandwidth	B _w		2		GHz	
Junction capacitance	C _j		0.65	0.80	Pf	V _r =5V
Return Loss	RL	45	50		dB	
Fiber Type	SMF-28e, G657A1, G657A2, G657B3 Fiber					

Notice: Above specifications are tested in room temperature at 25°C.

Specifications may change without notice.

Drawing:**Pin Information:****Ordering Information (Part Number):**

SMNIPD- WWW - BB - FF - J - LL - CC					
WWW	BB	FF	J	LL	CC
Response Wavelength	Bandwidth	Fiber Type	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	02 - 2GHz	S2 - SMF-28e	B - 250um Bare Fiber	05 - 0.5m	NE - None
1550 - 1550nm		A1 - G657A1	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
SSSS - Specify		A2 - G657A2		15 - 1.5m	FU - FC/UPC
		B3 - G657B3		20 - 2.0m	LA - LC/APC
		SS - Specify		SS - Specify	LU - LC/UPC
					SA - SC/APC
					SU - SC/UPC
					TA - ST/APC
					TU - ST/UPC
					SS - Specify

Notification:

1. The Semiconductor Optoelectronic products are particularly sensitive of ESD (electro-static discharge), it's recommended to use grounded anti-static wrist straps and grounded anti-static mats before handling the products.
2. Always take anti-static measures to storage the products when not in use.

