

1550nm MPO SM Pigtailed InGaAs PIN Mini PD Array

1550nm MPO SM Pigtailed InGaAs PIN Mini PD Array is an optoelectronic product which can detect light signal by transferring the light optical signal to electric signal, it's built with InGaAs chip material to detect the light signal from the pigtailed fiber, the MPO pigtailed fiber can be 4, 8, 12, 16, 24 channel. it's widely used for monitoring the optical power in fiber optic sensor

Application:

Fiber Communication
Fiber Optic Sensor
Computed Tomography
Testing System

Features:

High Response
Low Dark Current
Low Capacitance
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.

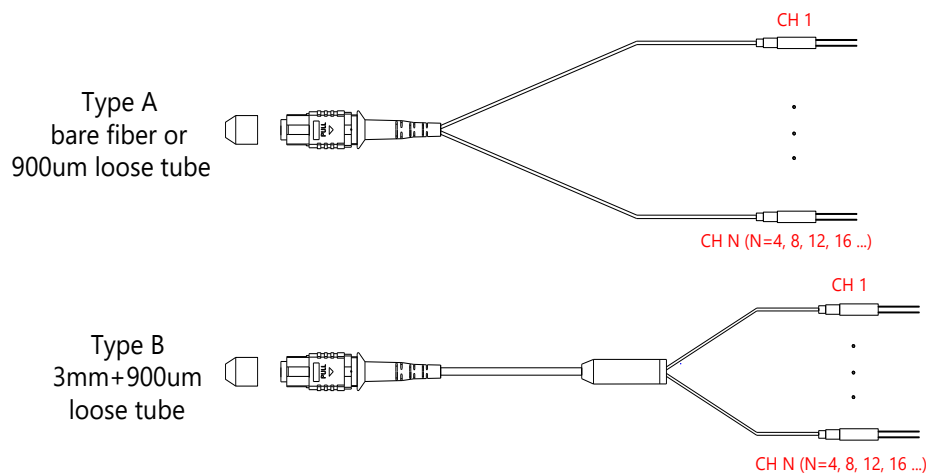
Optical and Electrical Specification:

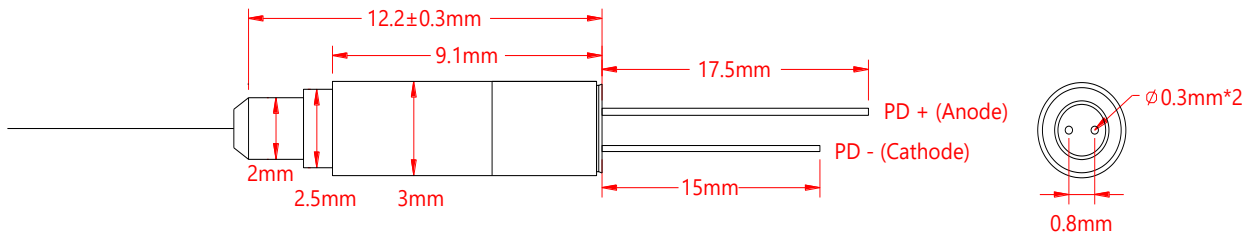
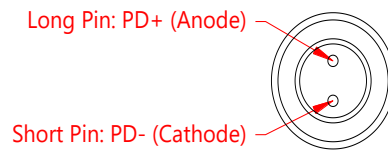
Parameter	Symbol	Min.	Tpy.	Max.	Unit	Test Condition
Wavelength Range	λ	1100	1550	1650	nm	
Saturation Input Power	P			10	mW	V _r =5V
Dark Current	I _d		0.05	0.2	nA	V _r =5V
Responsivity	λ =1310nm	R	0.80	0.85	A/W	
	λ =1550nm		0.85	0.90	A/W	
Operating Voltage	V _r		5		V	
Breakdown Reverse voltage	V _b			15	V	I _r =10uA
Frequency Bandwidth	B _w		2		GHz	
Junction capacitance	C _j		0.65	0.8	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.

MPO Cord Type:



PD Drawing:**Pin Information:****Ordering Information (Part Number):**SMNIPD-**WWW**-**TT**-**CC**-**FF**-**J**-**LL**-**CCCC**

WWW	TT	CC	FF	J	LL	CCCC
Wavelength	MPO Cord Type	Channel	Fiber Type	Fiber Jacket	Fiber Length	Connector
1550 - 1550nm	A - Type A B - Type B	04 - 4CH 08 - 8CH 12 - 12CH 16 - 16CH 24 - 24CH SS - Specify	S2 - SMF-28e A1 - G657A1 A2 - G657A2 B3 - G657B3 SS - Specify	B - 250um Bare Fiber 9 - 900um Loose Tube 39 - 3mm+900um Loose Tube	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	MALM - MPO/APC, Low Loss, Male MALF - MPO/APC, Low Loss, Female MULM - MPO/UPC, Low Loss, Male MULF - MPO/UPC, Low Loss, Female TALM - MTP/APC, Low Loss, Male TALF - MTP/APC, Low Loss, Female SSSS - 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.

