

InGaAs PIN Photodiode - 1950, 2000, 2100, 2300nm

Features:

- Low Noise, High Reliability
- 800-2600nm Wide Wavelength Range
- Large Active Diameter
- Fiber Pigtailed

Applications:

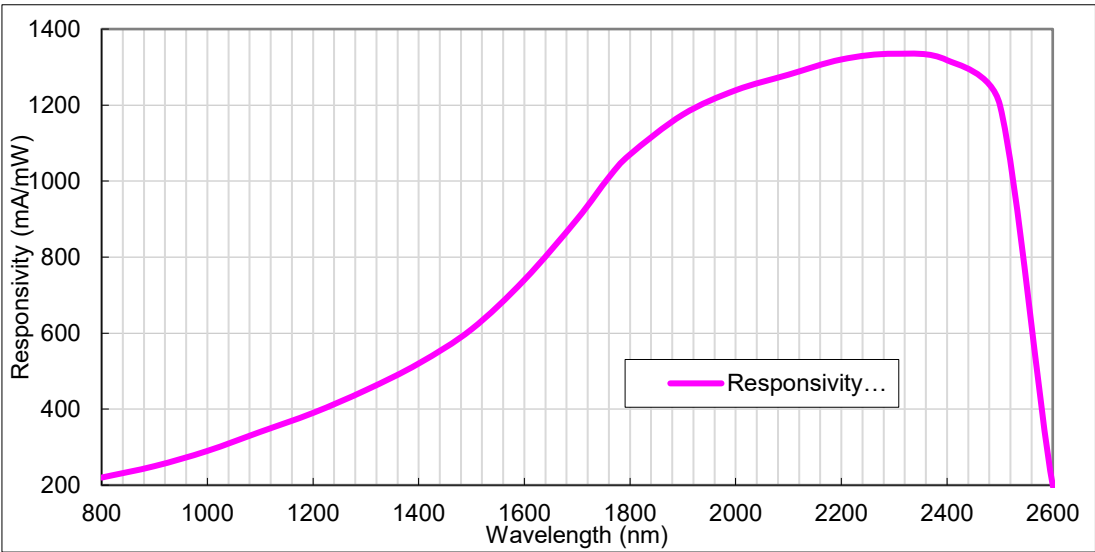
- Gas Analyzer
- Environment Measurement
- Covert IR Sensor, Spectrography, Temperature Sensor
- Medical and Chemical Analysis
- Optical Power Meter, Space Light Detect



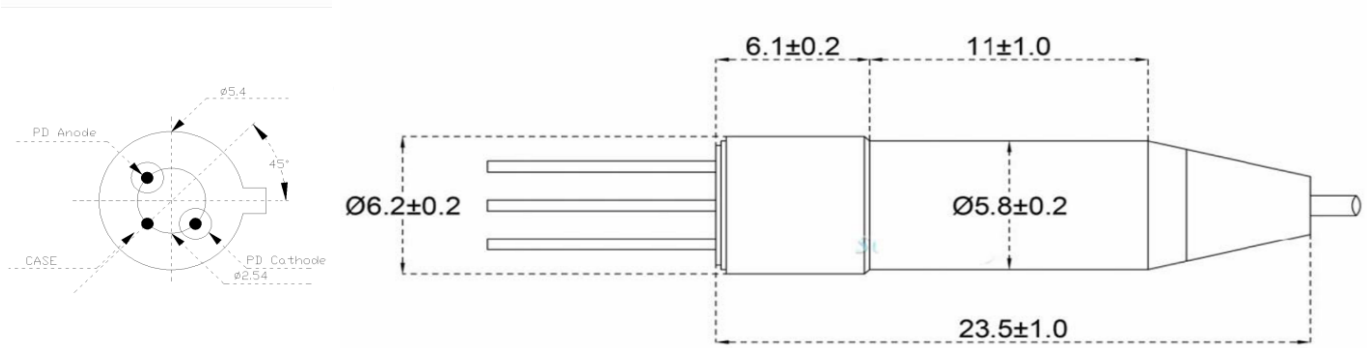
Optical & Electrical Characteristics

Parameters	Unit	Values (Typ.)	Symbol
Active Diameter	mm	1	Φ
Spectral Range	nm	800~2600	λ
Responsivity	mA/mW	0.21	Re (Vr=0.1V, λ =850nm)
	mA/mW	0.45	Re (Vr=0.1V, λ =1310nm)
	mA/mW	1.3	Re(Vr=0.1V, λ =2300nm)
	mA/mW	0.23	Re(Vr=0.1V, λ =2600nm)
Response Time	ns	25	Tr (RL=50 Ω , Vr=0.1V)
Dark Current	μ A	0.3	Id(Vr=0V)
	μ A	1	Id(Vr=0.1V)
Reverse Breakdown Voltage	V	1	VBR (Id=10 μ A)
Total Capacitance	pF	150	Cj (f=1MHz, Vr=0V)
	pF	130	Cj (f=1MHz, Vr=0.1V)
Saturated Optical Power	mW	6	Ps(Vr=0.1V)
Reverse Operating Voltage	V	0~0.1	Vr
Shunt Impedance	K Ω	15	Rsh (Vr=10mV)
Package	Fiber Pigtailed, SMF-28e, 900 μ m Jacket (PVC/White) or bare fiber, 1m		
Operating Temperature	$^{\circ}$ C	-40 ~ +85	T _{op}
Storage Temperature	$^{\circ}$ C	-40 ~ +100	T _{stg}
Reverse Voltage	V	0.2	Vr
Soldering Temperature (time)	$^{\circ}$ C	260	T _s (10s)

- ESD protection is essential during storage, transportation, and assembly
- The fiber bending radius no less than 20mm for avoiding fiber damaged, be sure the fiber coupling facet is clean before connecting it to opto-circuit.



Package Dimensions



Ordering Information

PD- ①①①①-②②②-③-④-⑤⑤

①	Wavelength (nm)	1950; 2000; 2100; 2300;
②	Pigtail Type	250=250μm Fiber; 900=900μm Loose Tube;
③	Fiber Type	1=SMF-28e;
④	Fiber Length	1=1m;
⑤	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;