

InGaAs Photodiode Module

1. Features:

- High responsivity, Low return loss;
- Low dark current, Low capacitance;
- High reliability, Long operation life;
- Planar incident structure;
- Coaxial package, Laser welding,
- Detect range 1100nm-1650nm;

2. Applications

- Analog optical receiver;
- Test equipment.

3. Absolute Maximum Ratings:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Saturation power	P _S	CW	-	-	5	mW
Forward current	I _F	CW	-	10	-	mA
Reverse voltage	V _{RPD}	CW	-	30	-	V
Reverse current	I _{RPD}	CW	-	5	-	mA
Operating temperature	T _{op}	-	-40	-	85	°C
Storage temperature	T _s	-	-40	-	+85	°C

4. Optical-Electro Characteristics:

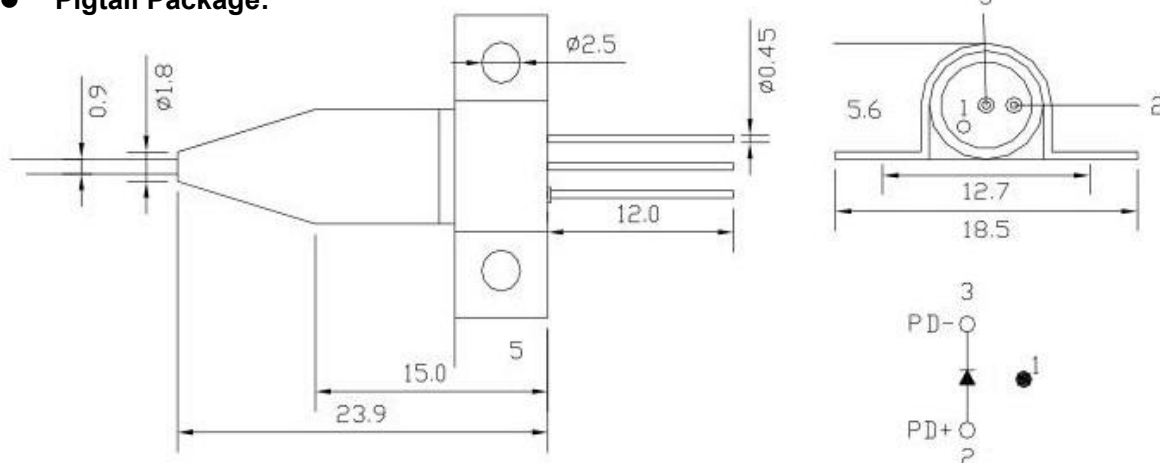
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Wavelength range	λ		1100	-	1650	nm
Responsivity	R	V _r =5V, λ =1310nm	0.85	0.90	-	A/W
		V _r =5V, λ =1550nm	0.90	0.95	-	
Dark current	I _D	V _r =5V	-	0.2	0.5	nA
Capacitance	C	V _r =5V, f=1MHz,case open	-	0.6	0.75	pF
Rise time/Fall time	T _R /T _F	V _r =5V, 10~90%	-	-	0.3	ns
Bandwidth	BW	V _r =5V, 50 Ω load with lead length=6mm,case open	2.5	-	-	GHz
Composite second order beat	CSO	-	-	-70	-	dB
Composite third order beat	CTB	-	-	-80	-	dB
Operating voltage	V	-	-	-5	-	V
Optical return loss	ORL	λ =1310nm	-	45	-	dB

NOTE:

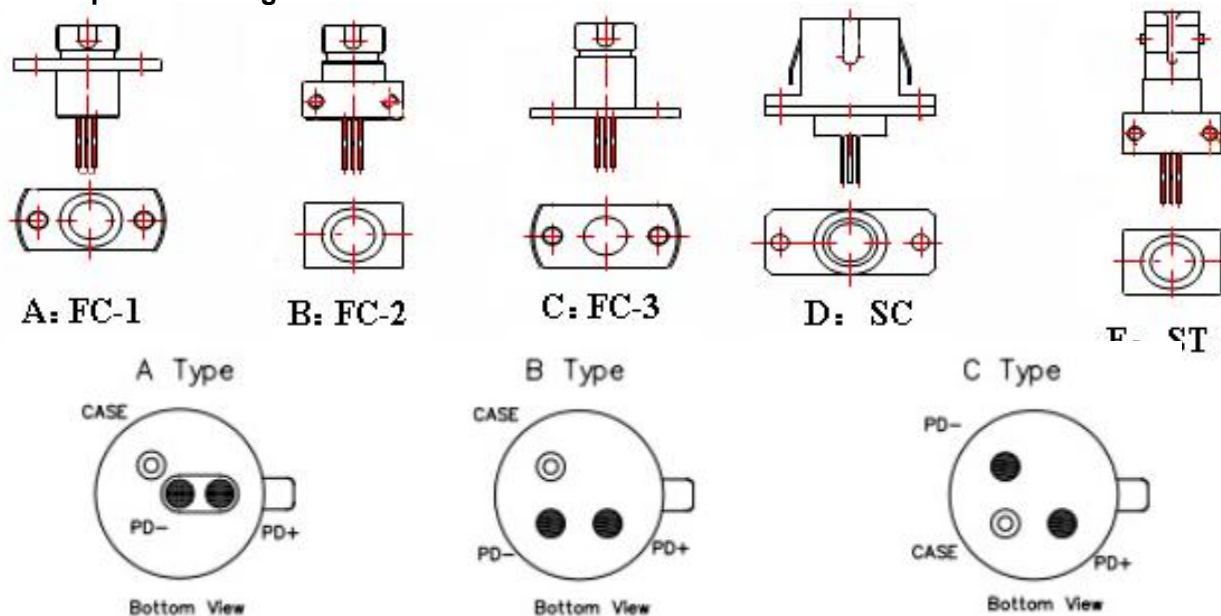
1. Pigtail length and the fixed-card format can be customized,
2. The above structure of the product, size, optical parameters and process technology requirements can be designed according to customer requirements.

5. Package Drawing&PIN-OUT Definition(Unit:mm):

- **Pigtail Package:**



- **Receptacle Package:**



6. Order Information:

BPD	-XX	X	XX	X	-XX	-X
PD	Active area	PD Type	Fiber length	PIN-OUT	Connector	Material
Photodiode	55: ϕ55 70: ϕ70 3H: ϕ300 Other	P: Pigtailed type	05: 0.5m 10: 1.0m Other	A: Type A B: Type B C: Type C	FA: FC/APC SA: SC/APC Other	Null
		R: Receptacle type	Null		FC: FC-1 SC: SC-1 ST: ST	C: ceramic M: metal P: plastic