



1、Description

Pigtail PD is a device which can transform the optical signal to electronic signal. PD is worked under the effect of backward voltage, when there is no light shine, the reverse current is very low, which called dark current ; when there is light shine, the reverse current suddenly increase to several microamp ere, which called light electric current. The reverse current is big while the light power is high. The electric current changes according to the power of light changes, then the light signal can be changed to electrical signal, which called photo-electronic light sensors.

2、Feature

- High responsivity, flat structure of In GaAs PIN detector
- Low capacitance and low dark current
- Single-mode fiber coaxial package

3、Specification

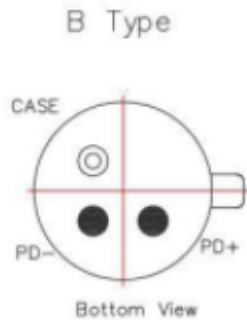
3.1 Optical & Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Wavelength Range	λ	1100	-	1650	nm	-
Power Range	P	-70	-	+3	dBm	$V_r=5V$
Active Diameter	Ad	25		80	um	-
Dark Current	I_d	-	0.2	0.5	nA	-
Responsivity	R	-	0.85	0.90	A/W	$\lambda=1310\text{ nm}$

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			0.90	0.95		$\lambda=1550\text{ nm}$
Frequency Bandwidth	BW	1		10000	MHz	
Frequency Response	Fr	-	± 0.5	-	dB	
Capacitance	Ct	-	0.5	0.65	Pf	-
Response Time	Tr	-	-	1	ns	-

3.2 Pin table



4、 Application

- CATV transmission optical receiver
- RF transmission optical receiver
- Other Analog receiver/ Power detector