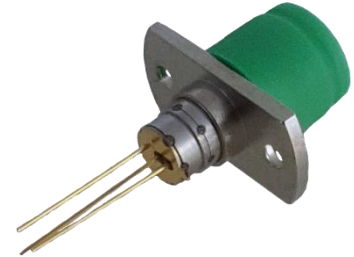




FCPD-80-FC

- InGaAs PIN Photodiode
- Ø 80 µm active area
- 0.85 – 1.7 µm spectral range
- Receptacle package
- FC Connector



Description

FCPD-80-FC is an InGaAs PIN photodiode with an active area of Ø 80 µm in a receptacle package with FC/PC connector. It features, a wide range of sensitivity from 850 nm to 1700 nm, high responsivity, low terminal capacitance, and low dark current.

FCPD-80-FC is optionally available with different connectors and pigtailed package.

Maximum Rating ($T_{CASE} = 25^{\circ}C$)

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	V_R		15	V
Forward Current	I_F		2.0	mA
Operating Temperature	T_{OPR}	- 40	+ 85	°C
Storage Temperature	T_{STG}	- 40	+ 125	°C
Soldering Temperature (max.10s)	T_{SOL}		+ 260	°C



Electro-Optical Characteristics ($T_{CASE} = 23^{\circ}C$)

Parameter	Symbol	Condition	min.	typ.	max.	Unit
Spectral Range	λ		0.85	1310	1.7	µm
Aperture Diameter	$\varnothing$			80		µm
Dark Current	I_D	$V_R=5\text{ V}$		0.3	2.0	nA
Capacitance	C_J	$V_R=5\text{ V}$		0.7	1.0	pF
Responsivity	S_λ	1.31 µm	0.8	0.85		A/W
		1.55 µm	0.85	0.9		
Rise / Fall Time	t_r / t_f	$V_R=5\text{ V}$			0.3	ns
Saturation Power	P_S	$V_R=5\text{ V}$		2		mW
Bandwidth		-3 dB		2.0		GHz
Fiber Connector				FC *		

* optional: SC or ST

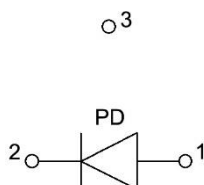


Electrical Connection

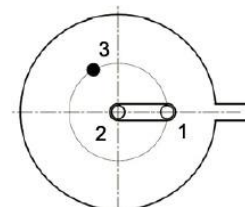
Pin Configuration*

Pin #	Function
Pin 1	PD Anode
Pin 2	PD Cathode
Pin 3	Case

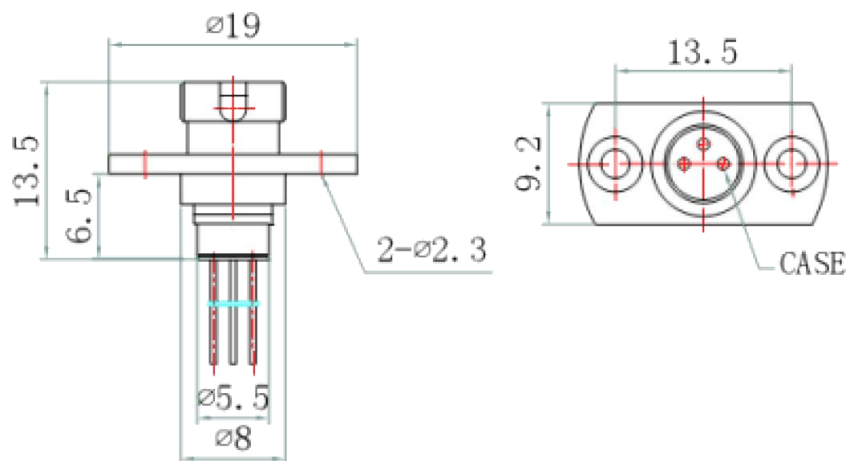
* subject to change



Bottom View



Outline Dimensions



All dimensions in mm

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The above specifications are for reference purpose only and subjected to change without prior notice