



FCPD-55-FC

- InGaAs PIN Photodiode
- Ø 55 µm active area
- 0.85 – 1.7 µm spectral range
- FC receptacle package
- High responsivity



Description

FCPD-55-FC is an **InGaAs** PIN photodiode with an active area of Ø 55 µm in a FC receptacle package. It features a wide sensitivity range from 850 nm to 1700 nm, high responsivity, low terminal capacitance, and low dark current.

Maximum Rating

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

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

Parameter	Symbol	Condition	min.	typ.	max.	Unit
Spectral Range	λ		0.85	1.31	1.7	µm
Aperture Diameter	$\varnothing$			55		µm
Dark Current	I_D	$V_R=5\text{ V}$		0.2	0.5	nA
Bandwidth		-3 dB		3.0		GHz
Capacitance	C_J	$V_R=5\text{ V}$		0.5	1.0	pF
Responsivity	S_λ	1.31 µm	0.8	0.85		A/W
		1.55 µm	0.85	0.90		
Rise/Fall time	t_r / t_f	$V_R=5\text{ V}$			0.3	ns
Package		Receptacle package with FC con.				



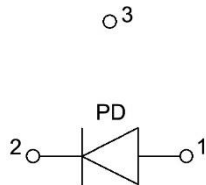


Electrical Connection

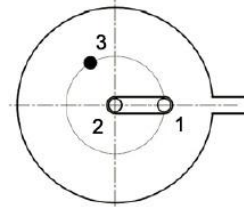
Pin Configuration*

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

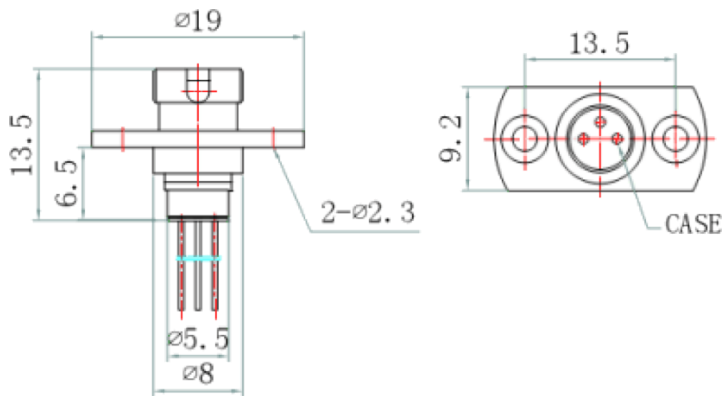
* subject to change



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