



## FCPD-1000-C9

- Pigtailed InGaAs PIN Photodiode
- Ø 1000 µm active area
- 0.85 – 1.7 µm spectral range
- Coaxial package
- 9 µm single mode fiber



### Description

**FCPD-1000-C9** is an **InGaAs** PIN photodiode with an active area of Ø 1000 µm in a pigtailed coaxial package with **9 µm single mode fiber** and 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-1000-C9** is optionally available with different connectors, and receptacle package without fiber.

### Maximum Rating (T<sub>CASE</sub> = 25°C)

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	V <sub>R</sub>		40	V
Forward Current	I <sub>F</sub>		10	mA
Operating Temperature	T <sub>OPR</sub>	- 40	+ 85	°C
Storage Temperature	T <sub>STG</sub>	- 40	+ 125	°C
Soldering Temperature (max.10s)	T <sub>SOL</sub>		+ 260	°C



### Electro-Optical Characteristics (T<sub>CASE</sub> = 23°C)

Parameter	Symbol	Condition	min.	typ.	max.	Unit
Spectral Range	λ		0.85		1.7	µm
Aperture Diameter	Ø			1000		µm
Peak Sensitivity	A <sub>P</sub>	V <sub>R</sub> =0 V		1.55		µm
Dark Current	I <sub>D</sub>	V <sub>R</sub> =5 V		1	5	nA
Capacitance	C <sub>J</sub>	V <sub>R</sub> =5 V		40	60	pF
Responsivity	S <sub>λ</sub>	1.31 µm		0.85		A/W
		1.55 µm		0.90		
Saturation Power	P <sub>S</sub>	V <sub>R</sub> =5 V		10		mW
Rise/Fall time	t <sub>r</sub> / t <sub>f</sub>	V <sub>R</sub> =5 V			5	ns
Fiber Specification	Fiber Core			9		µm
	Fiber Length			80		
	Fiber Connector			FC/PC *		

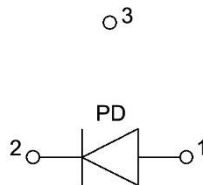
\* other options on request



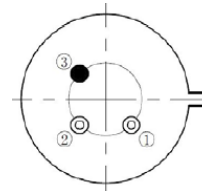
## Electrical Connection

### Pin Configuration\*

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

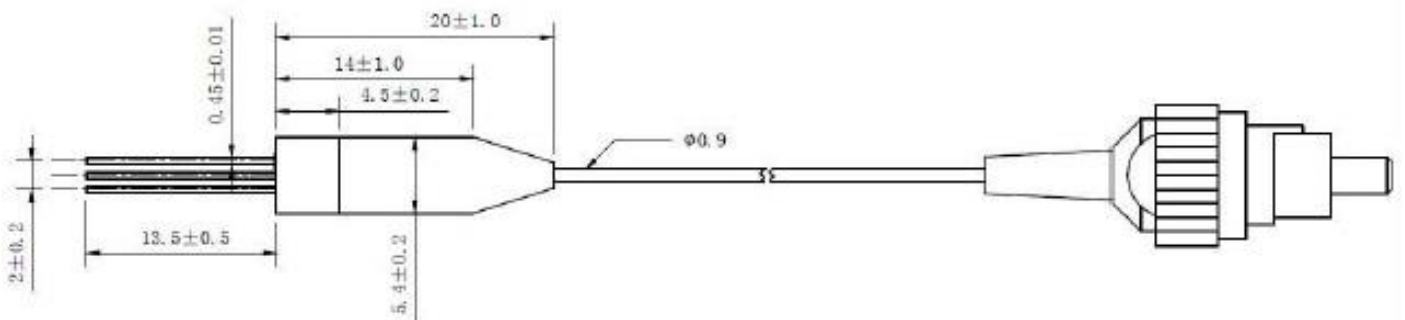


### Bottom View



\* subject to change

## 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