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FCPD-55-C9

- **Pigtailed InGaAs PIN Photodiode**
- **Ø 55 µm active area**
- **0.85 – 1.7 µm spectral range**
- **Coaxial package**
- **9 µm single mode fiber**

RoHS COMPLIANT Pb Pb-Free

Description

FCPD-55-C9 is an **InGaAs** PIN photodiode with an active area of Ø 55 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-55-C9** is optionally available with different connectors, and receptacle package without fiber.

ATTENTION
STATIC SENSITIVE DEVICES
HANDLE ONLY AT
STATIC WORK STATIONS

Maximum Rating (T_{CASE} = 25°C)

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	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 (max.10s)	T_{SOL}		+ 260	°C

Electro-Optical Characteristics (T_{CASE} = 23°C)

Parameter		Symbol	Condition	min.	typ.	max.	Unit
Spectral Range		λ		0.85		1.7	µm
Aperture Diameter		Ø			55		µm
Peak Sensitivity		λ_P	V_R=0 V		1.55		µm
Dark Current		I_D	V_R=5 V		0.2	0.5	nA
Capacitance		C_J	V_R=5 V		0.5	1.0	pF
Responsivity		S_λ	1.31 µm 1.55 µm	0.80 0.85	0.85 0.90		A/W
Saturation Power		P_S	V_R=5 V		10		mW
Rise/Fall time		t_r / t_f	V_R=5 V			0.3	ns
Bandwidth			*-3 dB*		3.0		GHz
Reverse Breakdown Voltage			I_R=10 µA	45			V
Fiber Specification	Fiber Core				9		µm
	Fiber Length				80		
	Fiber Connector				FC/PC *		

** other options on request*

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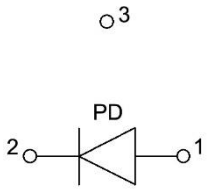
Electrical Connection

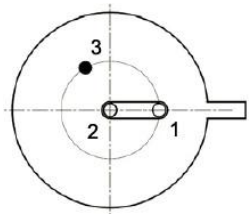
Pin Configuration*

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

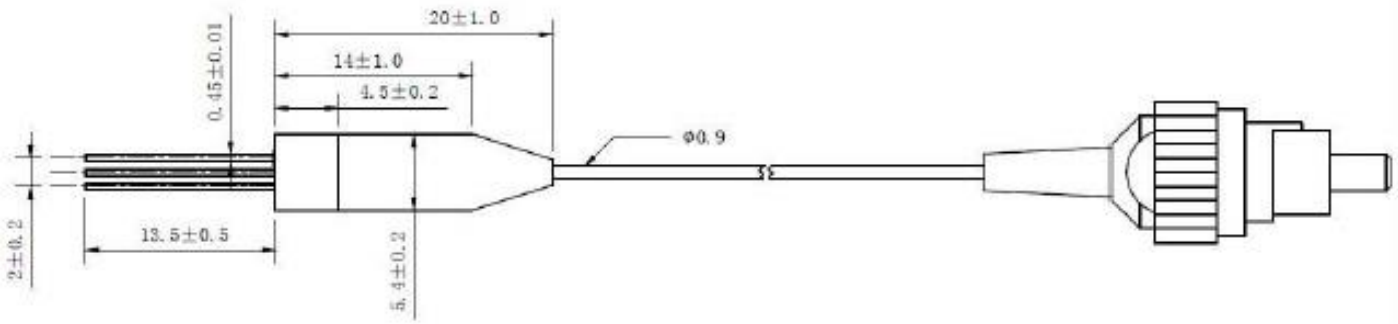
* subject to change



Bottom View



Outline Dimensions



All dimensions in mm

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