

1101 Photodiode

PD-3



Linear InGaAs PIN Photodiode, 3 GHz

The PD-3 is an linear InGaAs PIN photodiode with a multimode fiber pigtail designed for use in local area network, subscriber loop and high bit-rate transmission system applications up to 2.5 Gb/s at both 130 nm and 1550 nm wavelength. The PIN chip has photosensitivity area diameter of 50 μ m with a planar structure and guard ring for high reliability. A multimode fiber is aligned to the hermetically sealed PIN diode. The optical alignment system has the high coupling stability.

FEATURES

- High Quantum Efficiency: 0.85 A/W
- Low Dark Current: 0.1 nA
- Data Rates Up to 2.5 GB/s
- Wide Spectral Response Range: 900 nm to 1600 nm

USE IN

- Optical Transmission System
- Optical Communication
- Test and Measurement

Responsivity	0.85 A/W typ.
Dark Current	1 nA typ.
Bandwidth	3 Ghz typ.
Optical Gain	40 dB max.; 50 dB w/ Optional PA
Capacitance	0.9 pF max.
Optical Return Loss	30 dB typ.
Storage Temperature	-40°C to +90°C
Operating Case Temperature	-40°C to +85°C
Forward Current	5 mA
Reverse Current	2 mA
Reverse Voltage	20 V

