

InGaAs PIN Photodiode Module With Pigtail Connection

Data Sheet

OPD1355-LC

Features

- Hermetically sealed
- Low dark current: up to 3nA
- High Quantum Efficiency: 0.8A/W
- Singlemode LC/PC connector
- Spectral Response Range: 1150nm to 1600nm
- Operating Temperature: -40° ~ +85° C

Applications

- Telecom and datacom networking systems
- Optical transmission systems: SONET OC-3/ STM-1, OC-12/ STM-4, OC-24/ STM-8
- Power Meter
- Gigabit Ethernet
- FDDI
- LAN

Description

The OPD1355-LC is a hermetically sealed InGaAs PIN photodiode module in a small coaxial type package with LC/PC connector.

The photodiode is designed for use in data communications systems and telecommunications systems over singlemode fiber, and can operate in temperatures of -40° C to +85° C. The photodiode module is designed for data transmission between spectral bandwidths of 1150 to 1600 nm.

Safety

Device contains gallium arsenide (GaAs) which can be hazardous to your health. Please embrace all customary precautions and discretion while handling this device. Observe governmental laws and regulations when discarding this device.

Performance Specifications

Absolute Maximum Ratings

Stresses in excess of the absolute maximum ratings can cause damage to the optical device. Operations of the optical device are suggested to remain within the recommended operating conditions. Exposure to the absolute maximum ratings for extended periods can adversely affect device reliability.

Parameter	Symbol	Value	Unit
Storage Temperature	T_{stg}	-40 to +85	°C
Operating Case Temperature	T_{op}	-40 to +85	°C
Forward Current	I_{FD}	5	mA
Reverse Current	I_{RP}	1	mA
Reverse Voltage	V_{RD}	30	V

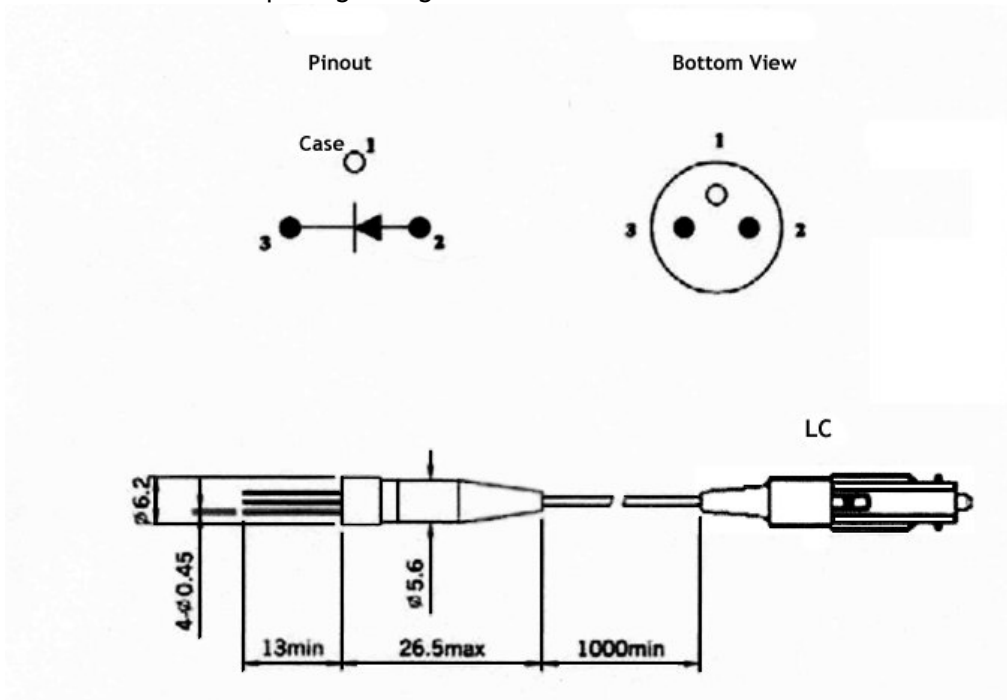
Electrical and Optical Characteristics ($T_C=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Wavelength	λ		1150		1600	nm
Bandwidth	BW	$V_R = 5V$	-	1.5	-	GHz
Responsivity	R	$\lambda = 1310 \text{ nm}$	0.7	0.8	-	A/W
Dark Current	I_d	$V_R = 5V$	-	0.5	3.0	nA
Capacitance	C	$V_R = 5V$	-	-	1.0	pF
Rise/Fall Time	T_R/T_F	$V_R = 5V$	-	-	1.15	ns

Physical Characteristics

Outline Diagram

Dimensions for the device package are given in millimeters.



Additional Information

Contact

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