

1550 nm FP 1.25G Laser Diode With SC Receptacle

Data Sheet

OLD2352-C4-SRE

Features

- Uncooled
- Type C laser
- Low threshold current
- Power Output: 0.2 mW
- 1550nm InGaAsP/ InP Fabry-Perot laser diode
- High speed InGaAs monitor PIN photodiode
- Packaged in SC Receptacle with TO-56
- Anti-reflection with fiber stub
- Operating Temperature: -20 ~ +85°C

Applications

- Digital Signal Transmission
- Telecommunications (Local loop, interoffice and intraoffice)
- Data Communications
- SONET OC-3, OC-12, OC-24/SDH STM-1, STM-4, STM-8

Description

The OLD2352-C4-SRE is a hermetically sealed InGaAsP/ InP Fabry-Perot laser diode module in a small receptacle type package, including a high speed InGaAs PIN monitor photodiode and packaged in SC receptacle with fiber stub.

The laser diode is designed for use in data communications systems and telecommunications systems over singlemode fiber, and can operate in temperatures of -20°C to +85°C. The laser diode module transmits emission power to the monitor photodiode in the rear, which ensures highly stable emission at a wavelength of 1550nm.

Safety

Radiation emitted by laser diode devices can be dangerous to the eyes. Avoid direct or scattered radiation exposure to the eyes or skin. 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.

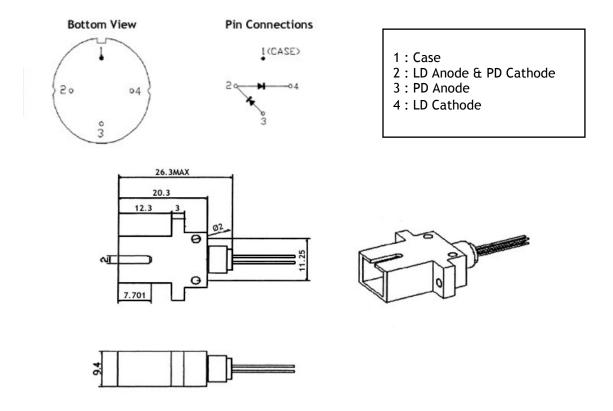
Parameter	Symbol	Value	Unit	
Storage Temperature	Tstg	-40 to +85	°C	
Operating Case Temperature	Тор	-20 to +85	°C	
Peak Optical Output Power	Po	2	mW	
Forward Current (LD)	I _{FLD}	150	mA	
Reverse Voltage (LD)	V_{RLD}	2	V	
Reverse Current (PD)	I _{RPD}	2	mA	
Reverse Voltage (PD)	V_{RPD}	15	V	
Soldering Temperature	Stemp	260	°C	
Soldering Time	Stime	10	sec	

Electrical and Optical Characteristics (T_C=25 °C unless otherwise noted)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Threshold Current	lth	CW	-	10	15	mA
		CW, T _C =-20~85°C	-	-	30	
Operating Voltage	Vop	CW, Pop,	-	1.1	1.5	V
		T_{C} =-20~85°C				
Operating Current	lop	Pop=0.2mW	-	18	30	mA
Peak Wavelength	λр	CW, Pop,	1480	-	1580	nm
		T_{C} =-20~85°C				
Spectral Width	Δλ	CW, Pop,	-	1.5	3.0	nm
		T _C =-20~85°C				
Rise Time	Tr	lb=lth, 20%-80%	-	0.25	0.5	ns
Fall Time	Tf	lb=lth, 20%-80%	-	0.25	0.5	ns
Monitor Current	lm	Pop, Vrp=5V	100	-	400	uA
Monitor Dark Current	ld	Vrp=5V	-	0.1	10	nA
		Vrp=5V, T _C =-20~85°C	-	-	500	
Monitor Capacitance	С	Vrp=5V, f=1MHZ	-	6	20	pF
Tracking Error	-	APC, -20 to +85°C	-	±0.7	±1.5	dB

Package Outline Diagram

Dimensions for the device package are given in millimeters.



Additional Information

Contact

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