

## Superluminescent Diode 1300nm 50mW



SLD-1300-9MM-50 double-pass superluminescent diode is a light source for fiber transmission systems, fiberoptic gyros, fiberoptic sensors, optical coherence tomography, optical measurements. The diode is packaged in standard 9mm TO can.

### Key Features

- Optical output: 50mW
- Curved waveguide with a high-reflection rear facet and tilted AR-coated front facet

### Optical and electrical characteristics: (T = 25°C)

Item	Symbol	Test condition	Min.	Typ.	Max.	Unit
Output Power	$P_f$			40	50	mW
Forward Voltage	$V_F$	$P_f=40mW$			2.5	V
Forward Current	$I_F$	$P_f=40mW$		450	500	mA
Center Wavelength	$\lambda_c$	$P_f=40mW$		1300		nm
Spectral Width	$\Delta\lambda$	$P_f=40mW$	20	25		nm
Monitor Current	$I_m$	$P_f=40mW, V_{RD}=5V$	40		500	$\mu A$
PD Dark Current	$I_d$	$V_{RD}=5V$			0.1	$\mu A$

### Absolute Maximum Ratings

Item	Symbol	Rating	Unit
LD Forward Current	$I_f$	500	mA
LD Reverse Voltage	$V_r$	1.8	V
PD Reverse Voltage	$V_{RD}$	10	V
Operation Case Temperature	$T_c$	-40 to +70	°C
Storage Temperature	$T_{stg}$	-40 to +85	°C

## PACKAGING

No.	FUNCTION
1	LD anode +
2	LD cathode -, PD anode - (case)
3	PD cathode +

