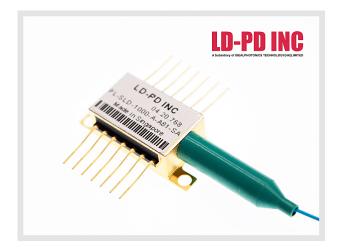


1000nm Super luminescent Diode(SLD) Laser Diode



Description:

The PL-SLD-1000-A-A81-SA 1000nm Superluminescent Diodes bridge the gap between Laser Diodes and Light Emitting Diodes. Like an LD, the SLD provides a high optical output power. PD-LD's SLD feature broadband spectrum characteristics, typically found only in LEDs, and a low coherence. Our SLD features a low coherence length having a high intensity at a narrow radiation angle. This makes the SLD much easier to couple to a fiber for a broad range of applications. SLDs are ideal for Optical Coherence Tomography, fiber sensors such as temperature and strain gauges as well as applications in test and measurement instrumentation. The diode is packaged in 14-pin standard butterfly package with monitor photodiode and thermo-electric cooler (TEC). Module is pigtailed with 0.7-1.0 m of single mode polarization maintaining fiber and connectorized by FC/APC connector.

Features:

- Optical output: 15mW
- FC-APC connector
- Efficient coupling into single mode fiber
- 14-pin butterfly package
- High optical output power
- Wide spectral half width
- Built-in monitor photo diode

Optional:

- Fiber transmission systems
- Fiber optic gyros
- Fiber optic sensors
- Optical coherence tomography
- Testing Light source

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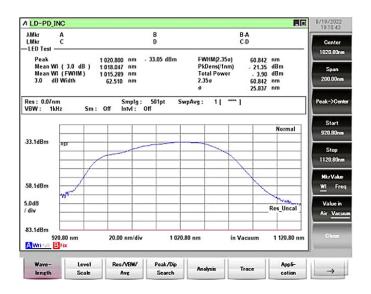


Laser Specifications:

Electrical/Optical Characteristics (Tsub=25°C, CW bias unless stated otherwise)

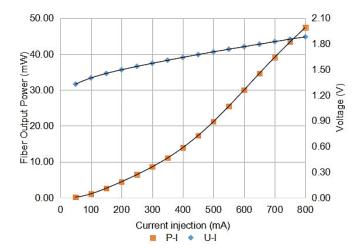
Parameter	Symbol	Min	Тур	Max	Unit
Centre Wavelength	λ	980	1000	1020	nm
Spectral Width	Δλ	75	95	115	nm
Threshold Current	Ith		30	40	mA
Operating Current	lop		800	900	mA
Fiber output Power	Pf	15	25	40	mW
PD Dark Current (VRD=5V)	Id			0.1	uA
Extinction Ratio	PER	17	20		dB
Coupled Fiber Type	HI1060/PM980				
Forward Voltage	Vf		1.8	2.5	V
Thermistor Resistance	RT	9.5	10	10.5	ΚΩ
Thermistor Temp. Coefficient			-4.4		%/°C
Connector	FC/APC				

Spectrum:

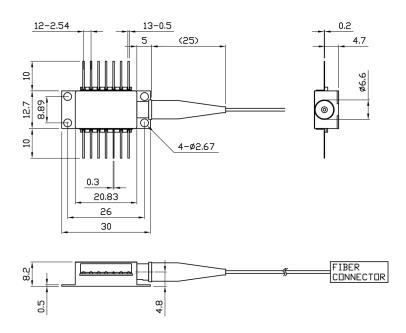




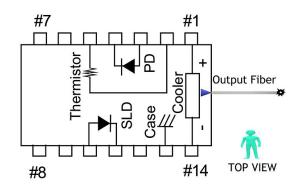
L-I Curve:



Package Size:



Pin definition:





1	Thermoelectric Cooler (+)	8	N/C
2	Thermistor	9	N/C
3	PD Monitor Anode (–)	10	SLD Anode (+)
4	PD Monitor Cathode (+)	11	SLD Cathode (–)
5	Thermistor	12	N/C
6	N/C	13	Case Ground
7	N/C	14	Thermoelectric Cooler (–)

Absolute Maximum Ratings:

Item	Unit	Min	Тур	Max
Case Temperature	°C	-20	25	70
Chip Temperature	°C	+10	25	40
Operating Current	mA	0	800	300
Forward Voltage	V	0.8	1.2	1.8
TEC Current	А	-	1.2	1.4
Reverse Voltage (SLD)	V	-	-	1.8
Reverse Voltage (PD)	V	-	-	10

OEM Info:

PL-SLD-□□□□-☆-A8▽-XX

□□□: Wavelength

680: 680nm 850: 850nm 1000: 1000nm

1550: 1550nm

☆: Output Power

A: 15mW B: 25mW

∇: Bandwidth

1: 80-100nm 2: 40-80nm

XX: Fiber and Connector Type

SA=SHI1060+ FC/APC

SP=HI1060+ FC/PC

PP=PM 980Fiber+ FC/PC

PA=PM 980Fiber+ FC/APC





