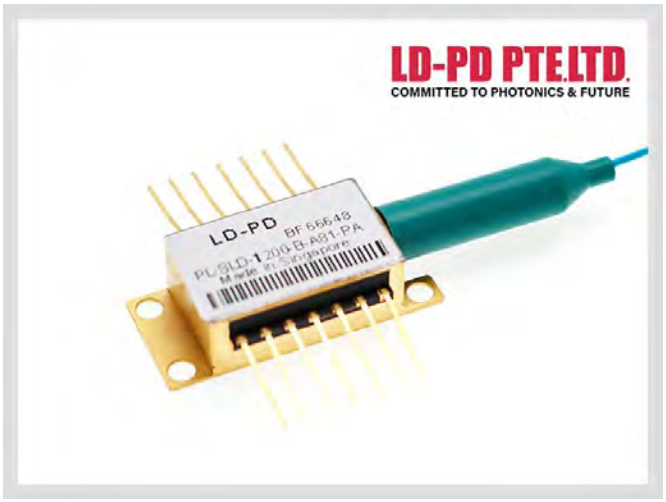
1200nm SLD PM Laser Diode



Description

The PL-SLD-1200-A-A81-PA 1200nm 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: 30mW
- 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

Advantages

- Fiber transmission systems,
- Fiber optic gyros,

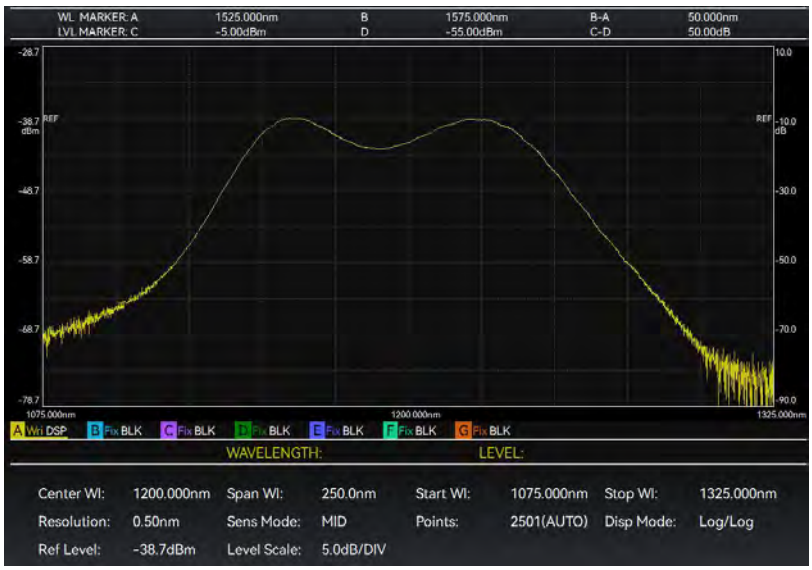
- Fiber optic sensors,
- Optical coherence tomography,
- Testing Light source

Laser Specifications

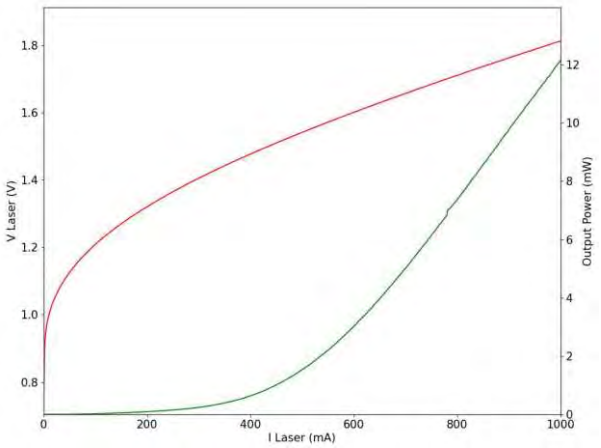
Electrical/Optical Characteristics(Tsub=25°C, CW bias unless stated otherwise)

Parameter	Symbol	Min	Typ	Max	Unit
Centre Wavelength	λ	1190	1200	1210	nm
Spectral Width	Δλ	30	40	80	nm
Threshold Current	Ith		280	400	mA
Operating Current	Iop		800	1000	mA
Fiber output Power	Pf	10	20	25	mW
PD Dark Current (VRD=5V)	Id			0.1	uA
Extinction Ratio	PER	17	20		dB
Coupled Fiber Type	SMF-28E/PM1310				
Forward Voltage	Vf		1.8	3	V
Thermistor Resistance	RT	9.5	10	10.5	KΩ
Thermistor Temp. Coefficient			-4.4		%/°C
Connector	FC/APC				

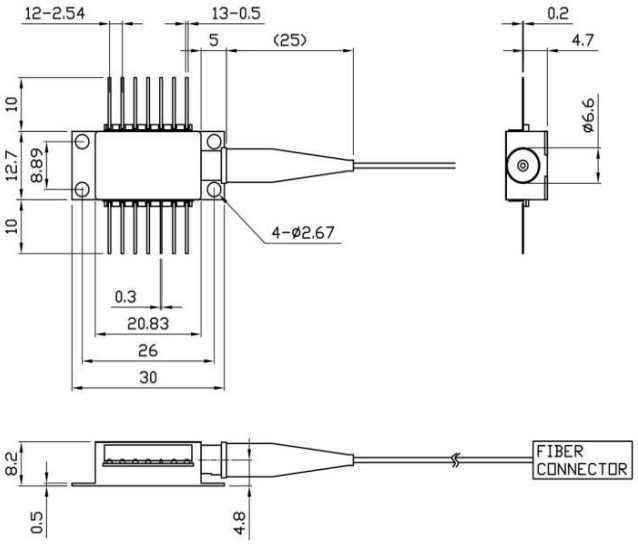
Spectrum



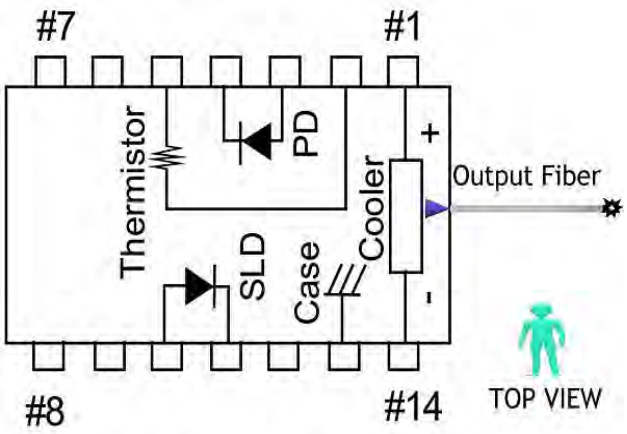
L-I Curve



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	Typ	Max
Case Temperature	℃	-20	25	70
Chip Temperature	℃	+10	25	40
Operating Current	mA	0	800	1000
Forward Voltage	V	0.8	1.2	1.8
TEC Current	A	-	1.2	2.0
Reverse Voltage （SLD）	V	-	-	2.0
Reverse Voltage(PD)	V	-	-	10
PD Forward Current	mA	-	-	10

Ordering Info

PL-SLD-□□□□-☆-A8▽-XX

□□□□: Wavelength

680: 680nm

850: 850nm

1280: 1280nm

1550: 1550nm

1650: 1650nm

☆: Output Power

A: 10mW

B: 25mW

▽: Bandwidth

1: ≥80nm

2: 40-50nm

XX: Fiber and Connector Type

SA=SMF-28E+ FC/APC

SP=SMF-28E+ FC/PC

PP=PM Fiber+ FC/PC

PA=PM Fiber+ FC/APC