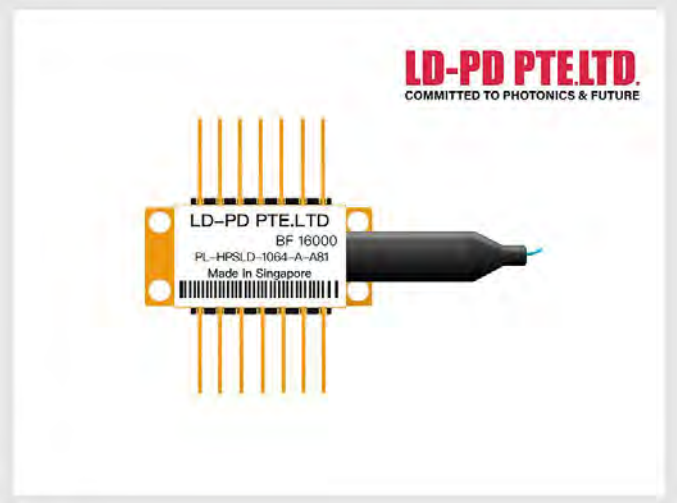
1064nm High Power Super luminescent Diode(SLD) Laser Diode



Description

The PL-HPSLD-1064-A-A81-PA 1064nm Superluminescent Diode is a light source for fiber transmission systems, fiber optic gyros, fiber optic sensors,optical coherence tomography, optical measurements. 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: ＞20mW
- FC-APC connector
- Efficient coupling into single mode fiber
- 14-pin butterfly package
- CW or pulsed operation
- Internal monitor PD and TEC
- SM or PM Fiber (ø0.9mm)

Application

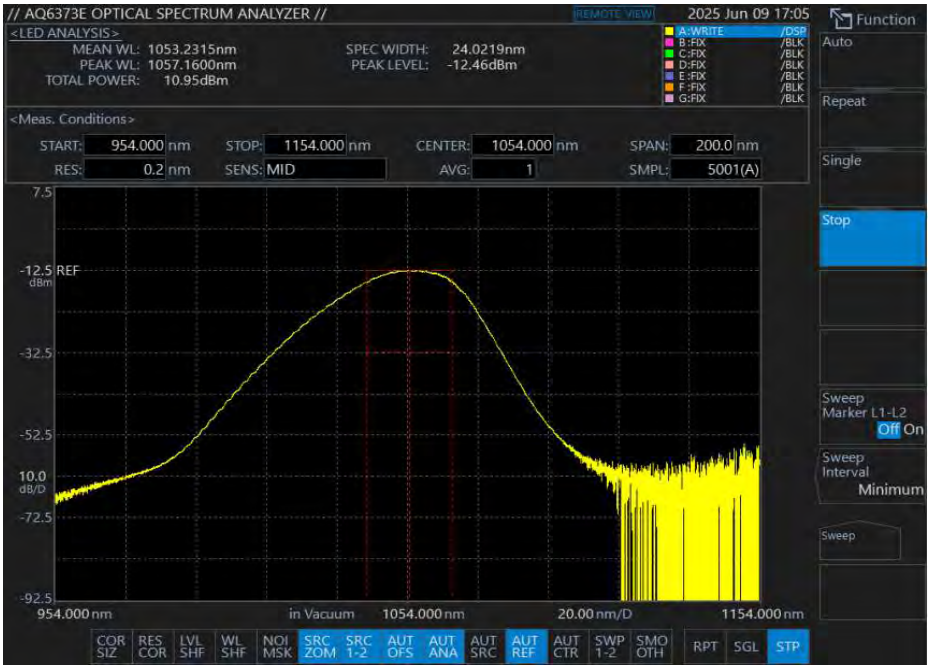
- Fiber transmission systems,
- Fiber optic gyros,
- Fiber optic sensors,
- Optical coherence tomography,
- Testing Light source

Laser Specifications

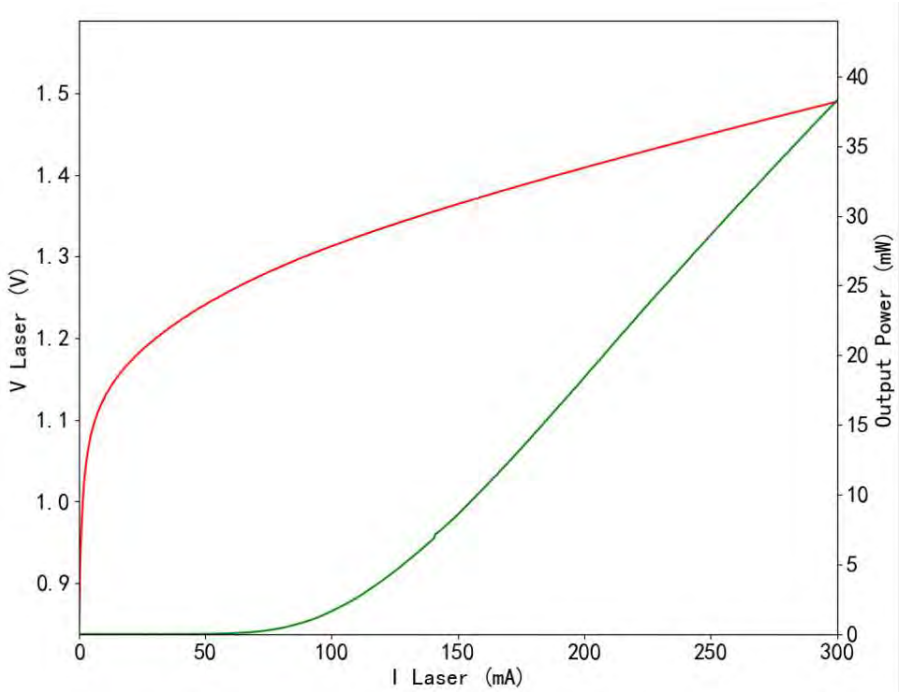
Electrical/Optical Characteristics(Tsub=25° C, CW bias unless stated otherwise)

Parameter	Symbol	Min	Typ	Max	Unit
Centre Wavelength	λ		1060		nm
Spectral Width	Δλ	15	20	30	nm
Threshold Current	Ith		30	40	mA
Operating Current	Iop		200	300	mA
Fiber output Power	Pf	20	30	40	mW
PD Dark Current (VRD=5V)	Id			0.1	uA
Ripple	RP			1	dB
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	KΩ
Thermistor Temp. Coefficient			-4.4		%/°C
Connector	FC/APC				

Spectrum



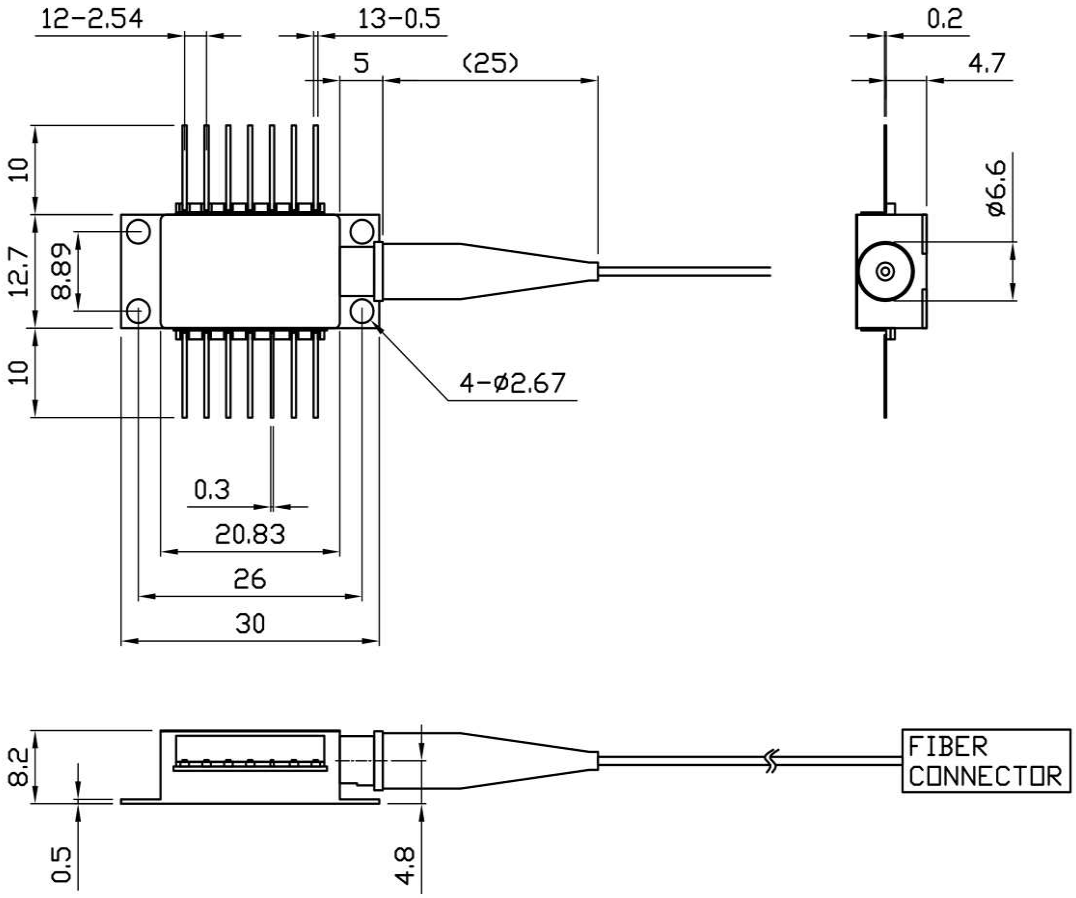
L-I Curve



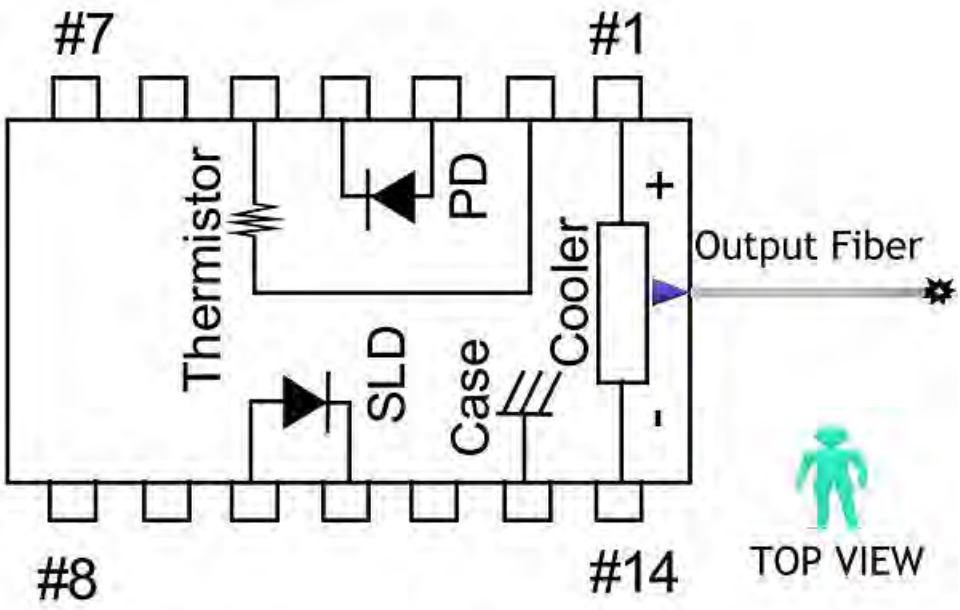
Ripple Test



Package Size



Pin definition



1	Thermoelectric Cooler (+)	8	N/C
2	Thermistor	9	N/C
3	PD Monitor Anode (-)	10	Laser Anode (+)
4	PD Monitor Cathode (+)	11	Laser 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	℃	-5	25	70
Chip Temperature	℃	+10	25	40
Operating Current	mA	0	100	300
Forward Voltage	V	0.8	1.2	1.8
TEC Current	A	-	1.2	1.4
Reverse Voltage（LD）	V	-	-	1.8
Reverse Voltage(PD)	V	-	-	10

Ordering Info

PL-HPSLD- □□□□-☆-A8▽- -XX

□□□□：Wavelength

680:680nm

850:850nm

*****

1064：1064nm

☆ : Output Power

A: 30mW

B: 50mW

▽: Spectral Width

1: 10-20nm

2: 20-30nm

XX: Fiber and Connector Type