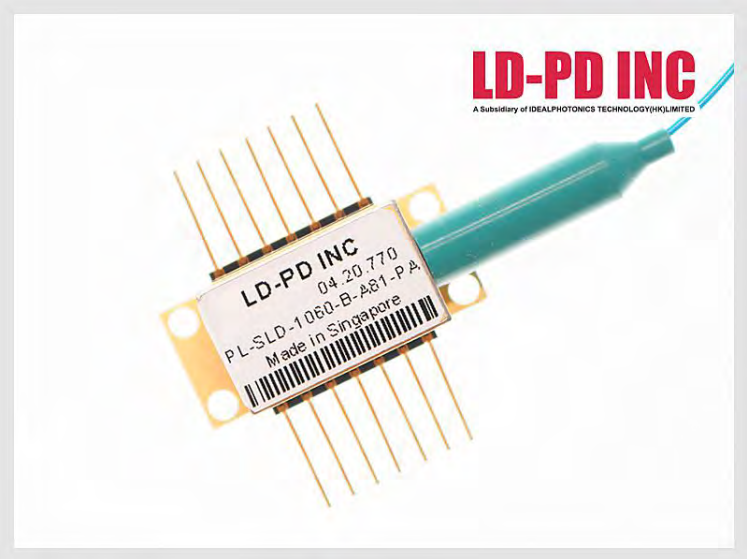
1060nm Super luminescent Diode(SLD) Laser Diode



Description

The PL-SLD-1060-A-A81-PA 1060nm 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: 3mW
- 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

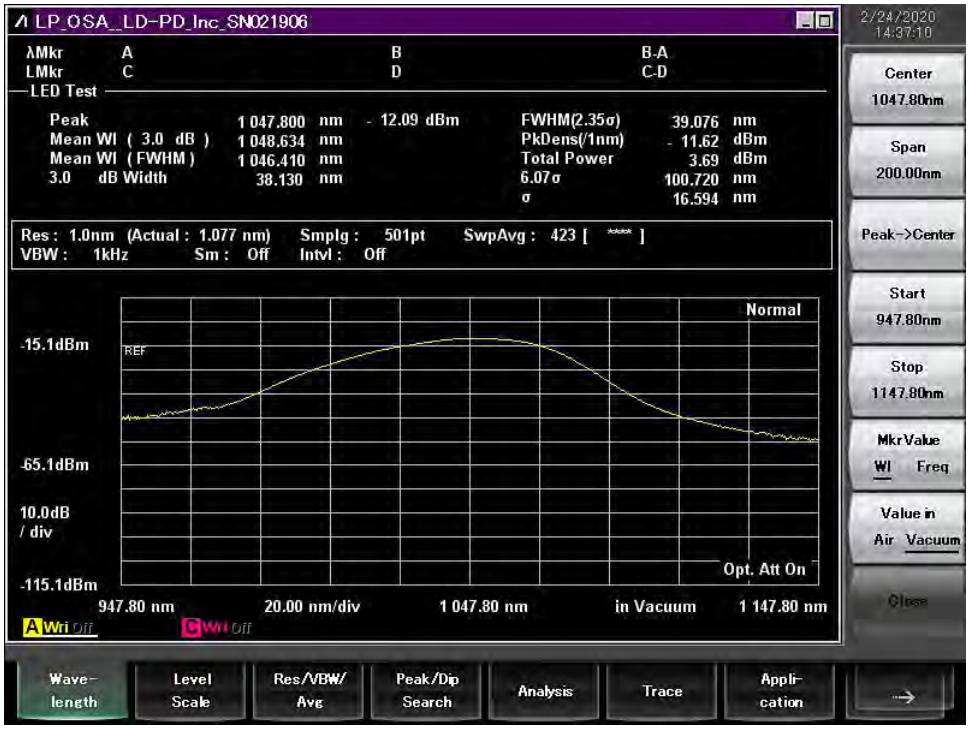
- Fiber transmission systems
- Fiber optic gyros
- Fiber optic sensors
- Optical coherence tomography
- Testing Light source

Laser Specifications

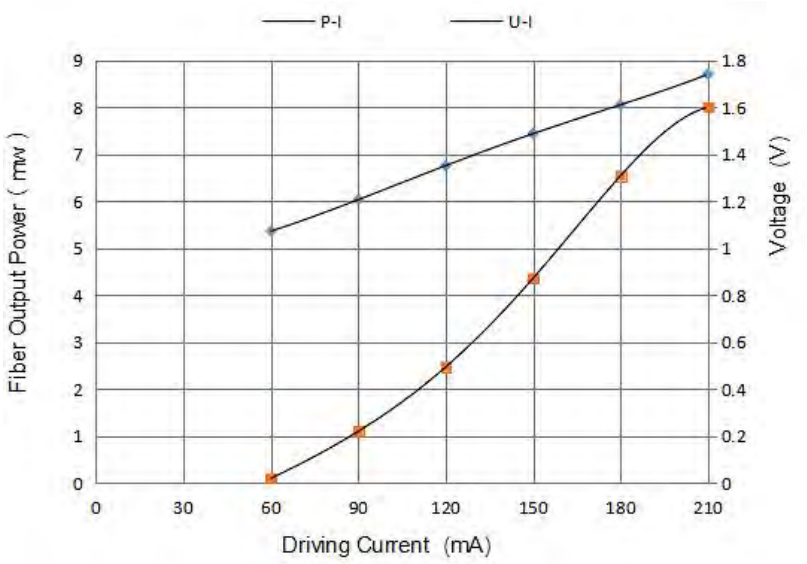
Electrical/Optical Characteristics(Tsub=25°C, CW bias unless stated otherwise)

Parameter	Symbol	Min	Typ	Max	Unit
Centre Wavelength	λ		1050		nm
Spectral Width	Δλ	50	60	70	nm
Threshold Current	Ith		30	40	mA
Operating Current	Iop		200	300	mA
Fiber output Power	Pf	3	5	10	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	KΩ
Thermistor Temp. Coefficient			-4.4		%/°C
Connector	FC/APC				

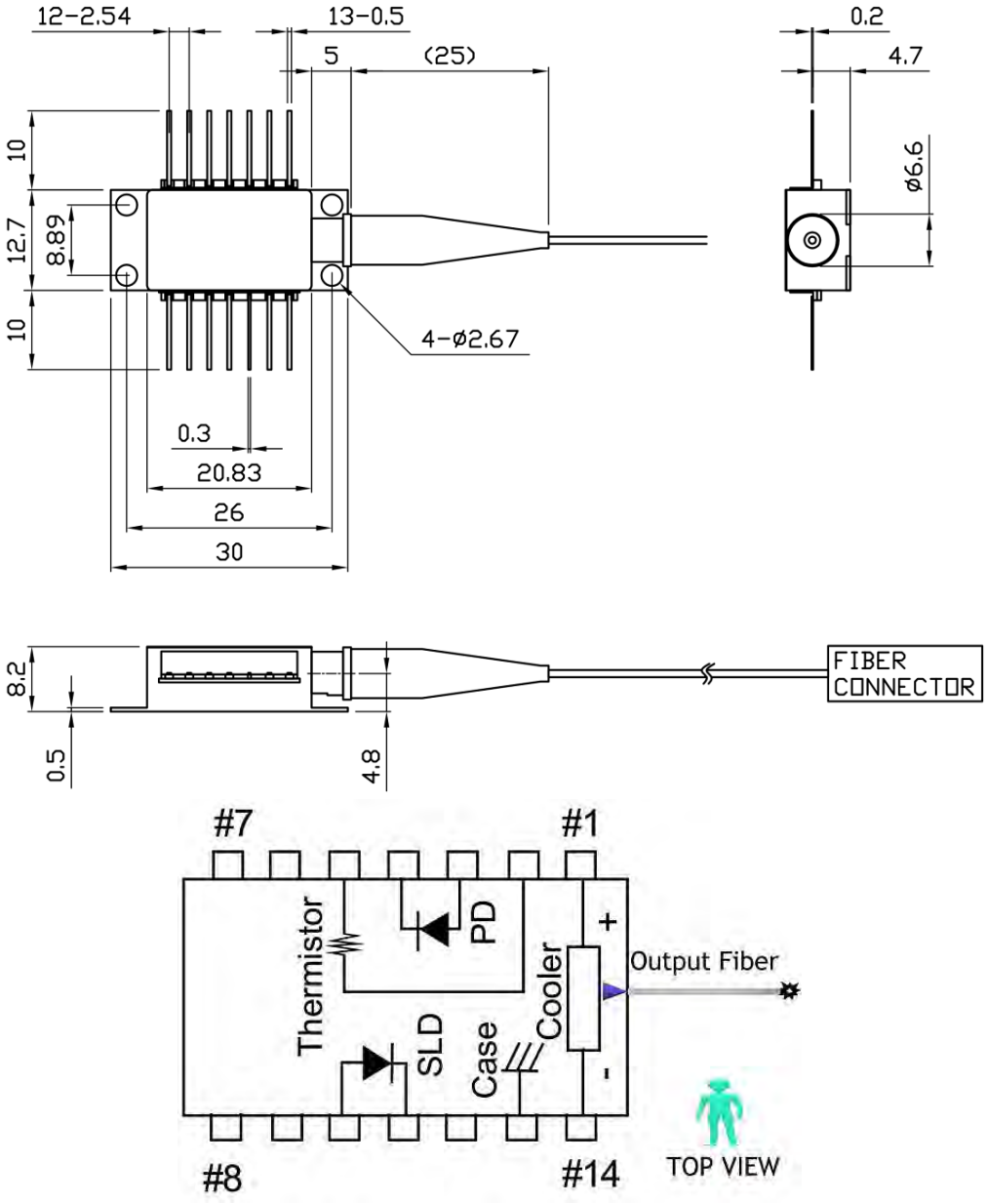
Spectrum



L-I Curve



Package Size and 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	120
Forward Voltage	V	0.8	1.2	1.8
TEC Current	A	-	-	1.2
Reverse Voltage (LD)	V	-	-	2.0
Reverse Voltage (PD)	V	-	-	20

Ordering Info

PL-SLD- □□□□-☆-A8▽- -XX

□□□□:Wavelength

680:680nm

850:850nm

*****

1550：1550nm

☆ : Output Power

A: 2mW

B: 5mW

▽: Spectral Width

1: 50-60nm

2: 30-40nm

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