SLED Butterfly Device

SGSLD-1310-10-XX-XX-14

◆ Features:

a. High power output
b. Metal-coupled and hermetic package
c. TEC inside
d. Polarization-maintaining or single-mode optical fiber
e. 14pin butterfly package

◆ Applications

a. Fiber-optic gyroscope
b. Optic test
c. Optical fiber transmission system
d. Fiber-optic sensor
e. OCT

◆ Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Condition
Operating Case Temperature	Tc	-20	70	°C	--
Storage Temperature	Tstg	-55	85	°C	--
Reverse Voltage	Vr	--	3	V	--
Forward current	Iop	--	300	mA	--
Thermoelectric cooler voltage	VTEC	--	3.0	V	--
Thermoelectric cooler current	ITEC	--	1.5	A	--
Lead solder Temperature	--	--	260	°C	--
Lead Soldering Time	--	--	10	s	--

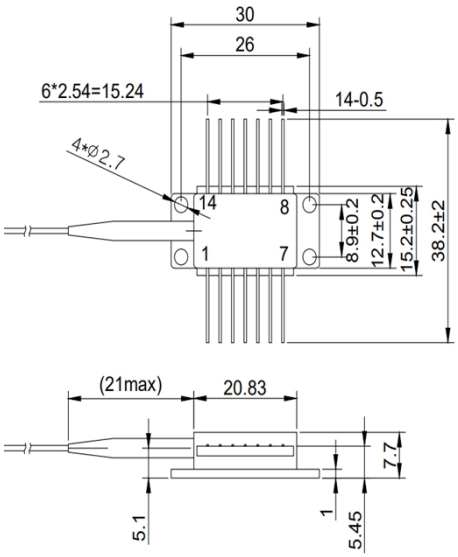
◆ Optical/Electrical Characteristics (T=25°C, unless otherwise stated)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Optical Output Power	Po	1	--	10	mW	CW,T=25°C
Forward Voltage	VF	--	--	2.5	V	CW,T=25°C
Center Wavelength	λc	1290	--	1330	nm	CW,T=25°C
Bandwidth FWHM	Bw	30	50	-	nm	CW,T=25°C
Spectral Ripple	--	--	--	1	dB	CW,T=25°C
Polarization Extinction Ratio	PER	-- 15	--	1.5 --	dB	Low Polarization Rate High Polarization Rate @PM Fiber
Thermistor Resistance	RT	9.5	10.0	10.5	KΩ	T=25 °C
Thermistor B-Value	--	--	3950	--	K	25°C/50°C

◆ Dimensions And Pin Description

Dimensions are in millimeters. All dimensions are ±0.1mm unless otherwise specified.

Type: 00



Pin	Description
1	TEC Cooler +
2	Thermistor
3	NC
4	NC
5	Thermistor
6	N/C
7	N/C
8	N/C
9	N/C
10	LD Anode
11	LD Cathode
12	NC
13	Ground
14	TEC Cooler -

◆ Ordering information

SGSLD-1XX0-XX-XX-XX-14

LD	Wavelength	Output Power	Encapsulation &Fiber selection	Connector	PIN
SGSLD=SLED …	…nm 1310=Low Polarization Rate 13=High Polarization Rate …	…mW 1 2 5 10 ...	BS=BTF SM Fiber BP=BTF PM Fiber …	00=NO FA=FC/APC SA=SC/APC …	14

Note:The laser module are ESD-sensitive devices. Please insure that proper ESD handling procedures are followed.