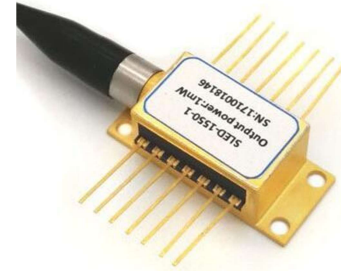


1310nm SLED Diodes

Model #: BFSLD

Features:

- High output power (0.2 ~ 2.5 mW);
- 3dB bandwidth > 35 nm
- Industry-standard, 14-pin butterfly package;
- Built-in TEC
- Operating Temperature -45 ~ +70 °C
- Single mode or PM fiber
- Telcordia GR-468.
- RoHS compliant



Applications:

- Fiber optic communications system;
- Fiber optic gyroscopes;
- Fiber optic sensors;
- Optical test instruments;
- Optical coherence tomography;
- Biomedical imaging systems

Absolute Maximum Ratings

Parameter	Symbol	Min.	Typical	Max.	Unit
Storage temperature	T _s	-55	-	85	°C
Operating case temperature	T _{op}	-45	-	70	°C
Reverse Voltage	V _{cc}	-	-	2.0	V
Forward Current	I _F	-	-	200	mA
TEC Voltage	V _{TEC}	-	-	3.2	V
TEC Current	I _{TEC}	-	-	1.2	A
Storage Humidity	-	5	-	85	%RH
Lead Solder Temperature	-	-	-	260	°C
Lead Solder Time	-	-	-	10	S
Tensile Strength of Pigtail	-	1	-	-	kgf
Fiber Bend Radius	-	30	-	-	mm

Electro-Optical Characteristics (at 25°C laser temperature)

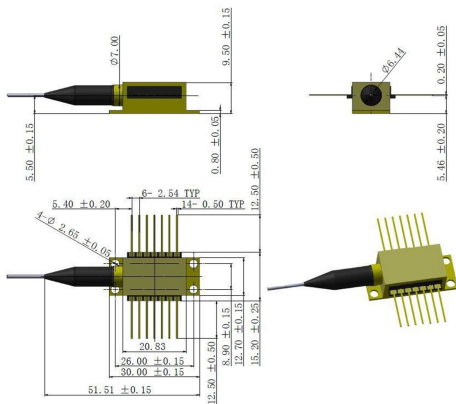
Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Operating current	I _{op}	-	100	200	mA	CW
Optical Output Power in Fiber	P _O	0.2	-	2.5	mW	CW, I _{TH} =100mA
Bandwidth (@-3dB)	Δλ	30	35	-	nm	CW
Center Wavelength	λ _c	1290	1310	1330	nm	CW

Spectrum Modulation	-	-	0.1	0.2	dB	-
Extinction	ER	-	-	1.0	dB	CW
TEC Current	I _c	-	-	2	A	CW
Thermistor Resistance	R _{TH}	9.5	10	10.5	KΩ	
Thermistor B Constant	B	-	3950	-	K	T _c = 25 °C

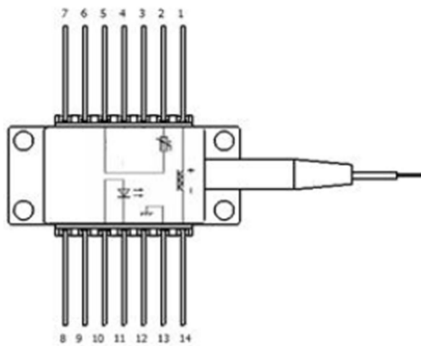
Fiber Pigtail Specifications

Parameters	Description
Fiber Type	SMF-28e
Jacket Type	900μm tight tube
Pigtail Length	1.0±0.1m
Connector Type	FC/APC

Package drawing (Mechanical Dimensions):



Pin Assignments:



1	Thermoelectric Cooler (+)
2	Thermistor
3	NC
4	NC
5	Thermistor
6	NC
7	NC
8	NC
9	NC
10	SLD Anode (+)
11	SLD Cathode (-)
12	NC
13	Case Ground
14	Thermoelectric Cooler (-)

Ordering Information: BFSLD-AAAA-BB-C-D

AAAA: wavelength	BB: output power	C: fiber type	D: connector type
850 - 850 nm	0.2 – 0.2 mW	SM – SMF-28	FU - FC/UPC
1310 -1310 nm	1.0 – 1 mW	PM – Panda PM fiber	FA - FC/APC
1550 – 1550 nm	2.0 – 2 mW		SU - SC/UPC
XXXX – Specify	3.0 – 3 mW		SA - SC/APC
		N - none
	15 – 15 mW		X - specify
	X - specify		

