

SLD1550S-A1

Description

The SLD1550S-A1 is a 1550 nm, low-power, broadband Superluminescent Diode (SLD) with a near-Gaussian spectral profile and low ripple. This SLD is housed in a standard 14-pin butterfly package with FC/APC-connectorized, non-polarization maintaining single mode fiber. An integrated thermistor allows for temperature control, thus stabilizing the power and spectrum.

Specifications

CW; $T_{CHIP} = 15-30\text{ }^{\circ}\text{C}$, $T_{CASE} = 0\text{ to }65\text{ }^{\circ}\text{C}$

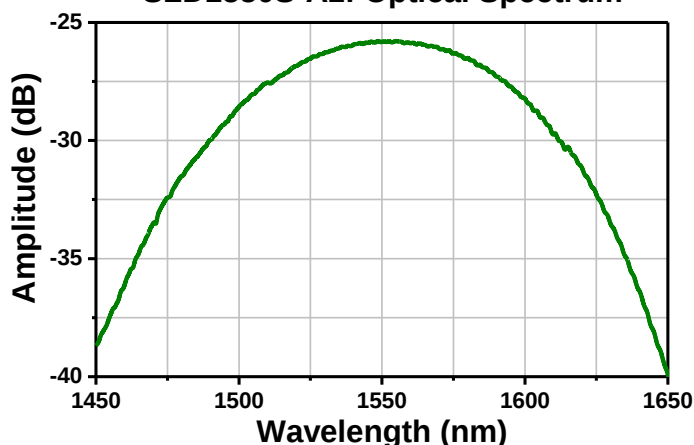
SLD1550S-A1				
	Symbol	Min	Typical	Max
Center Wavelength	λ_C	1520 nm	1550 nm	1580 nm
Operating Current	I_{OP}	-	450 mA	600 mA
ASE Power*	P_{ASE}	0.75 mW	1.0 mW	-
Optical 3 dB Bandwidth*	BW	90 nm	110 nm	-
RMS Gain Ripple *	δG	-	-	0.1 dB
Forward Voltage*	V_F	-	1.6 V	2.0 V
TEC Operation (Typical / Max @ $T_{CASE} = 25\text{ }^{\circ}\text{C} / 65\text{ }^{\circ}\text{C}$)				
- TEC Current	I_{TEC}	-	0.35 A	1.5 A
- TEC Voltage	V_{TEC}	-	0.5 V	3.5 V
- Thermistor Resistance	R_{TH}	-	10 k Ω	-

*@ I_{OP}

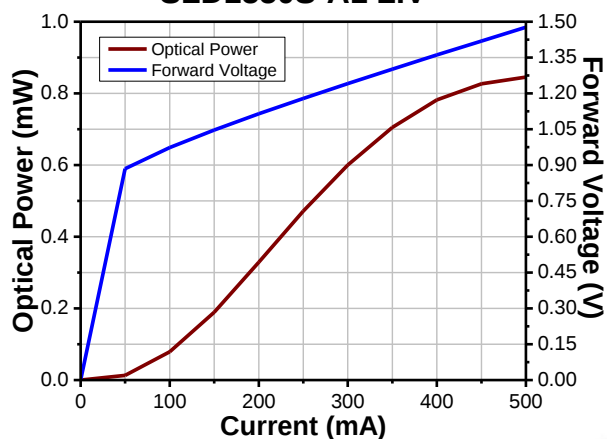


Performance Plots

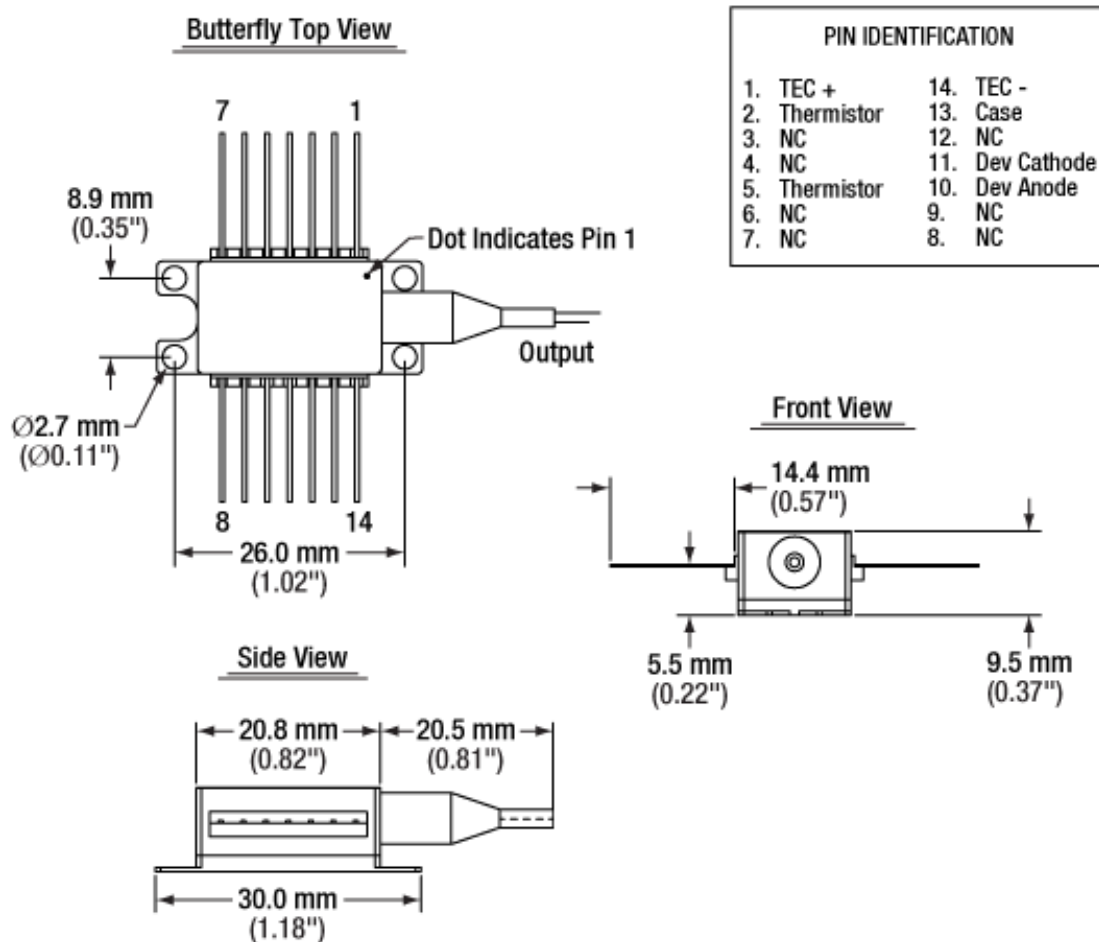
SLD1550S-A1: Optical Spectrum



SLD1550S-A1 LIV



Drawings



Note: Output isolator and monitor photodiode are available options for butterfly-packaged diodes. Please contact Tech Support for more information.