

Superluminescent Diode 1310 nm, Butterfly Package



SLD1021S

Description

The SLD1021S is a 1310 nm, high-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, nonpolarization-maintaining fiber. An integrated thermistor allows for temperature control, thus stabilizing the power and spectrum.

Specifications

CW; $T_{CHIP} = 25\text{ }^{\circ}\text{C}$, $T_{CASE} = 0 - 65\text{ }^{\circ}\text{C}$

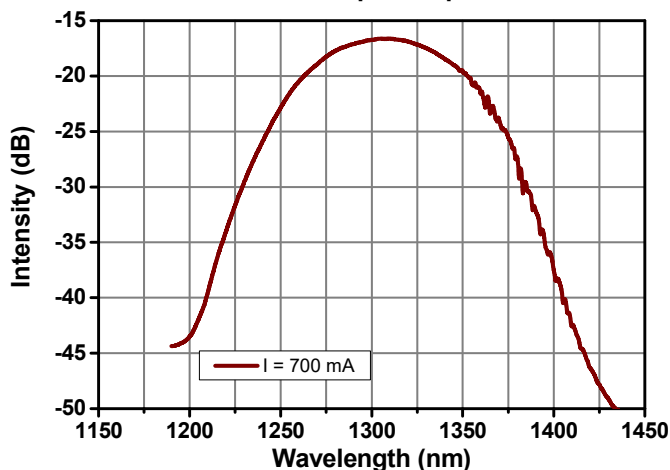
SLD1021S				
	Symbol	Min	Typical	Max
Center Wavelength	λ_C	1290 nm	-	1330 nm
Operating Current	I_{OP}	-	700 mA	900 mA
ASE Power*	P_{ASE}	10 mW	12.5 mW	-
Optical 3 dB Bandwidth*	BW	80 nm	85 nm	-
Gain Ripple (rms) *	δG	-	-	0.35 dB
Forward Voltage*	V_F	-	1.55 V	2.0 V
TEC Operation (Typical / Max @ $T_{CASE} = 25\text{ }^{\circ}\text{C} / 65\text{ }^{\circ}\text{C}$)				
-TEC Current	I_{TEC}	-	0.4 A	1.5 A
- TEC Voltage	V_{TEC}	-	0.5 V	4 V
- Thermistor Resistance	R_{TH}	-	10 k Ω	-

* @ I_{OP}

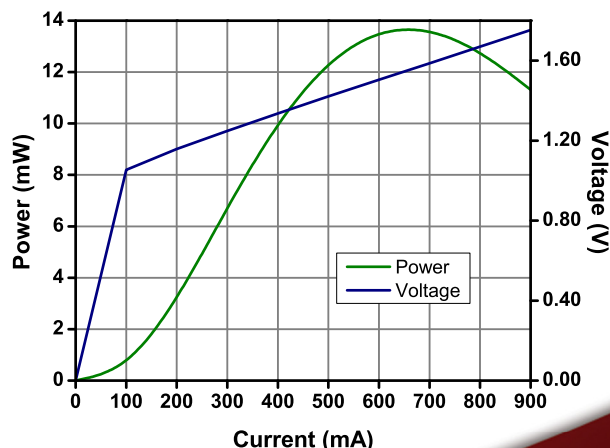


Performance Plots

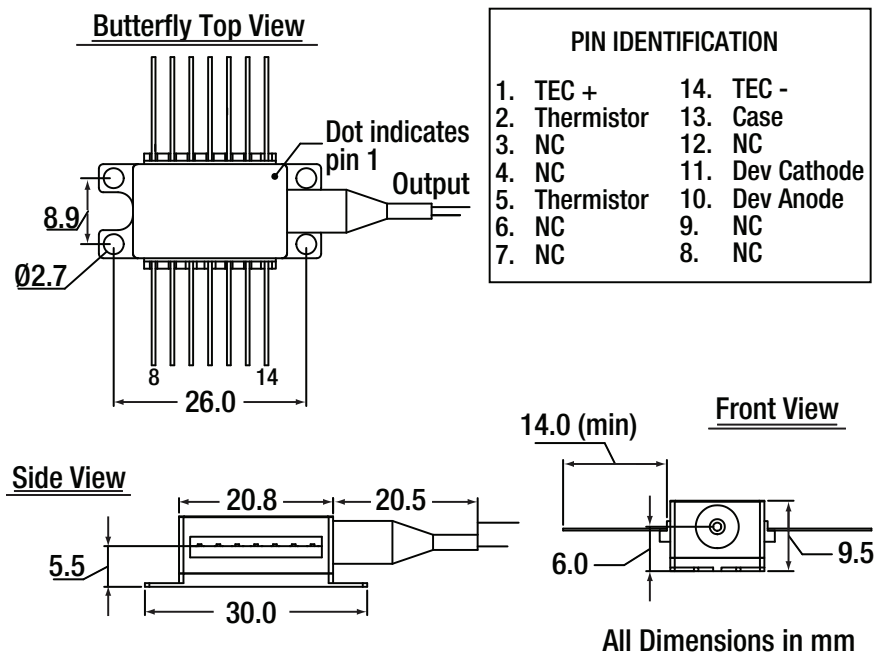
SLD1021S: Optical Spectrum



SLD1021S: Optical Power and Forward Voltage



Drawings



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