The Superluminescent Light Emitting Diode(SLED)
1550 nm, Butterfly Package

SLED1550S-A40

Description

The SLED1550S-A40 is a 1550 nm, low-power, broadband, The Superluminescent Light Emitting Diode (SLED) with a near-Gaussian spectral profile and low ripple. This SLED 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.

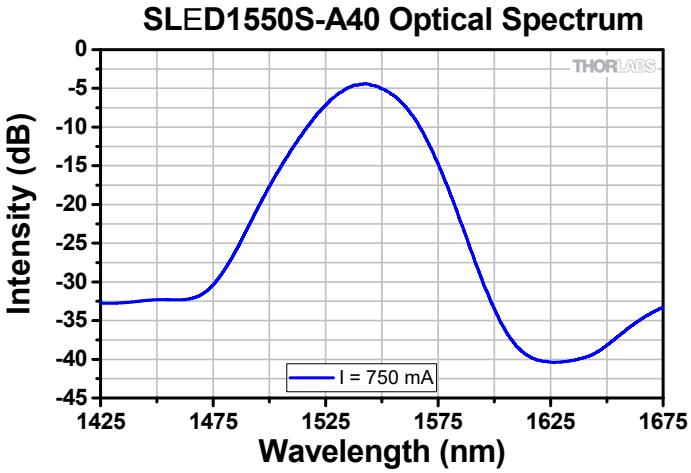
Specifications

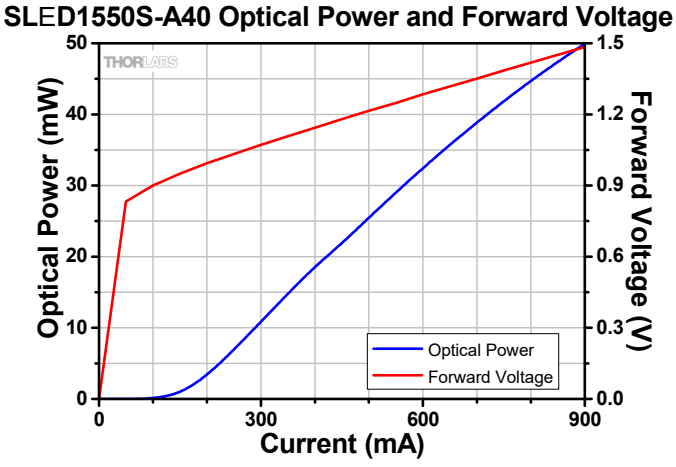
CW; T_{CHIP} = 25° C, T_{CASE} = 0 to 65° C

SLED1550S-A40				
	Symbol	**Min**	**Typical**	**Max**
Center Wavelength	λ_C	1530 nm	1550 nm	1570 nm
Operating Current	I_{OP}	-	750 mA	900 mA
ASE Power*	P_{ASE}	35 mW	40 mW	-
Optical 3 dB Bandwidth*	BW	30 nm	33 nm	-
RMS Gain Ripple *	δG	-	0.2 dB	0.35 dB
Forward Voltage*	V_F	-	1.4 V	1.8 V
TEC Operation (Typical / Max @ T_{CASE} = 25 °C / 65 °C)				
- TEC Current	I_{TEC}	-	0.3 A	1.5 A
- TEC Voltage	V_{TEC}	-	0.3 V	3.5 V
- Thermistor Resistance	R_{TH}	-	10 kΩ	-

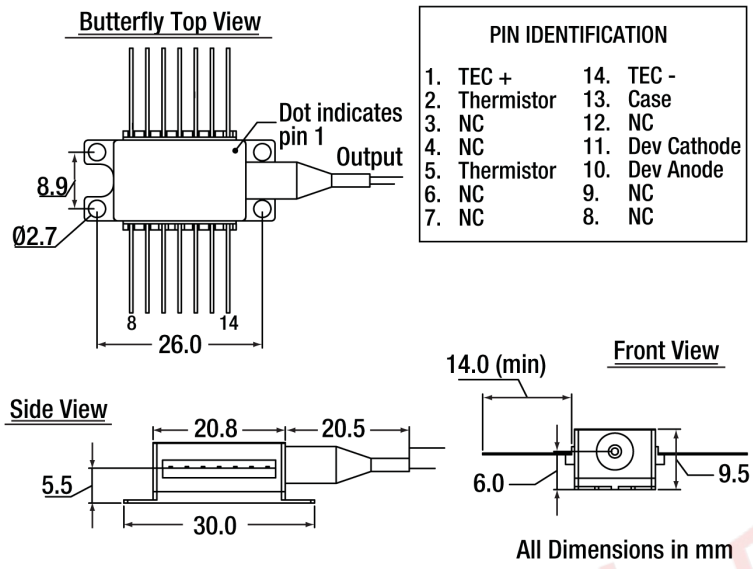
*@I_{OP}

Performance Plots





Drawings



PIN IDENTIFICATION			
1.	TEC +	14.	TEC -
2.	Thermistor	13.	Case
3.	NC	12.	NC
4.	NC	11.	Dev Cathode
5.	Thermistor	10.	Dev Anode
6.	NC	9.	NC
7.	NC	8.	NC

All Dimensions in mm

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