#### Light

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CHAPTERS
Coherent Sources
Incoherent Sources
Quantum Electronics
<b>Drivers/Mounts</b>
Accessories

#### **V**SECTIONS

Gain	Chips
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**Optical Amplifiers** 

#### Superluminescent Diodes

Bloace
Fabry-Perot Lasers
Single Frequency Lasers

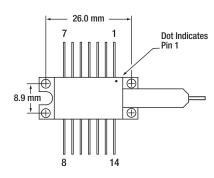
**Optical Modulators** 

# 1050 nm Superluminescent Diodes

Superluminescent Diodes (SLDs) are excellent high-power broadband light sources for use as ASE Light Sources and in applications like Optical Coherence Tomography (OCT) Imaging Systems and Fiber Optic Gyroscopes (FOGs). These Indium Phosphide (InP) devices have an integrated thermoelectric cooler (TEC) and thermistor to ensure output stability. The output is coupled into 1.5 m of either SM or PM fiber terminated with an FC/APC connector. Each SLD is available in a standard butterfly package (see drawing below for details).

#### **Pin Descriptions** 1 +TEC 14 -TEC 2 Thermistor 13 Case 3 NC 12 NC 4 NC 11 Device Cathode Thermistor 10 Device Anode 5 6 NC 9 NC 7 NC 8 NC

For current pricing, please see our website.



SLD1050S/SLD1050P

Typical

1050 nm

8 mW

50 nm

0.1 dB

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2.0 V

0.25 A

0.30 V

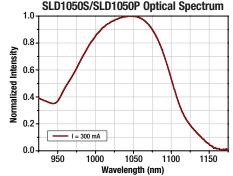
 $10 \ \mathrm{k}\Omega$ 

### Features

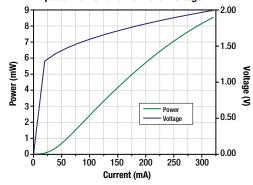
- 14-Pin Butterfly Package
- Integrated TEC and Thermistor
- SM or PM Fiber-Coupled Output with an FC/APC Connector

### SLD1050S

**NEW** products



#### SLD1050S/SLD1050P Optical Power and Forward Voltage



\*@ I<sub>OP</sub> \*\* Typical / Max at T<sub>CASE</sub> = 25 °C / 70 °C

**Optical-Electrical Characteristics** 

Symbol

 $\lambda_{\rm C}$ 

BW

ΔG

I<sub>OP</sub>

V<sub>F</sub>

I<sub>TEC</sub>

VTEC

 $R_{\mathrm{TH}}$ 

Min

1030 nm

6 mW

40 nm

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ITEM #	\$	£	€	RMB	DESCRIPTION
SLD1050S	\$ 1,500.00	£ 1,080.00	€ 1.305,00	¥ 11,955.00	8 mW SLD, BW: 50 nm, CWL = 1050 nm, Butterfly Pkg, SM Fiber, FC/APC
SLD1050P	\$ 1,650.00	£ 1,188.00	€ 1.435,50	¥ 13,150.50	8 mW SLD, BW: 50 nm, CWL = 1050 nm, Butterfly Pkg, PM Fiber, FC/APC

Max

1070 nm

0.25 dB

300 mA

2.5 V

1.5 A

4.0 V

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## Have you seen our...

# Tapered Amplifiers

◆ 20 nm FWHM Gain Range

ITEM #

Characteristic

ASE Power\*

Center Wavelength

RMS Gain Ripple\*

Operating Current

Forward Voltage\*

TEC Current\*\*

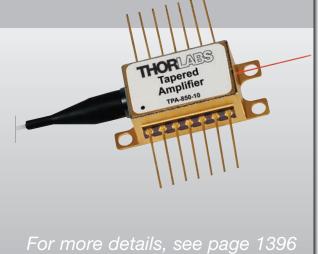
TEC Voltage\*\*

Thermistor Resistance

Optical 3 dB Bandwidth\*

1 W Output Power

Thorlabs' Tapered Amplifiers consist of an amplifier integrated into a 14-pin butterfly package. Within this package, we have fiber coupled the amplifier's input facet to eliminate tedious alignment procedures that customers typically have to perform when working with a component-based tapered amplifier. Our tapered amplifier design incorporates a PM fiber input to simplify connection to a seed laser. A collimating lens and beam-shaping cylindrical lens at the output provide a circular, collimated output beam.



#### www.thorlabs.com

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