

LP520-SF40



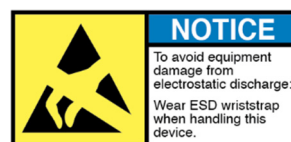
Description

Thorlabs' Single Mode Pigtailed Laser Diodes are standard TO-packaged diodes that have been pigtailed to a 1 m long single mode fiber with an FC/PC connector. Each unit is tested before shipment. Please refer to the unit-specific test datasheet for optimal operating parameters.

Specifications

Absolute Maximum Ratings ^a	
LD Reverse Voltage	2 V
PD Reverse Voltage	20 V
Optical Output Power	43 mW
Operating Temperature	0 to 50 °C
Storage Temperature	-10 to 65 °C

- a. Unit-specific values are given on the datasheet packaged with the unit. Absolute Maximum Rating specifications should never be exceeded. Operating at or beyond these conditions can permanently damage the laser.



NOTICE
To avoid equipment damage from electrostatic discharge: Wear ESD wriststrap when handling this device.



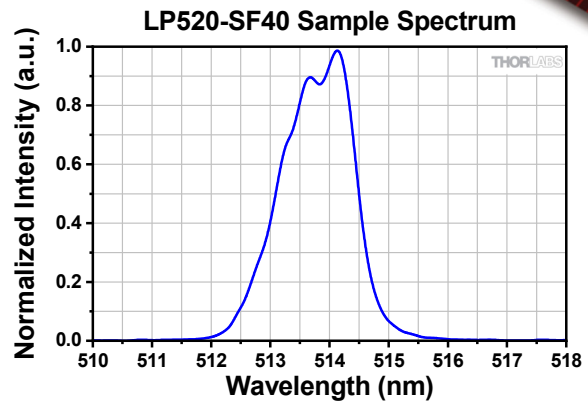
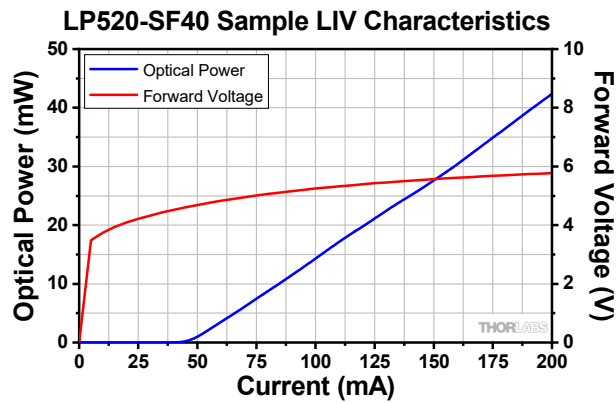
General Specifications	
Diode Size	5.6 mm
Pin Code	A
Monitor Photodiode	Yes ^a
Fiber	460HP
Connector	FC/PC, 2.0 mm Narrow Key
Laser Mode	Single Transverse Mode
Wavelength Tested	Yes

- a. This laser diode has a built-in monitor photodiode and therefore supports constant power operation.

Optical and Electrical Specifications ^a			
	Min	Typ.	Max
Wavelength	510 nm	520 nm	530 nm
Threshold Current	-	45 mA	-
Optical Output Power (P_o)	-	40 mW	-
Slope Efficiency	-	0.30 mW/mA	-
Operating Current @ $P_o = 40$ mW	-	190 mA	230 mA
Operating Voltage @ $P_o = 40$ mW	-	6.0 V	7.5 V
Monitor Current @ $P_o = 40$ mW	-	0.15 mA	-

- a. Temperature = 25 °C

Performance Plots



Drawing

