

## Pigtailed Laser Diode, SM Fiber

LP450-SF25



### 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

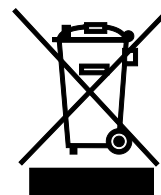
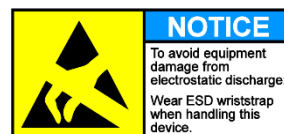
Absolute Maximum Ratings <sup>a</sup>	
LD Reverse Voltage	2 V
Optical Output Power	30 mW
Operating Temperature	0 to 50 °C
Storage Temperature	-10 to 65 °C

- a. Absolute Maximum Rating specifications should never be exceeded. Operating at or beyond these conditions can permanently damage the laser.

General Specifications	
Diode Size	5.6 mm
Pin Code	G
Fiber	S405-XP
Connector	FC/PC, 2.0 mm Narrow Key

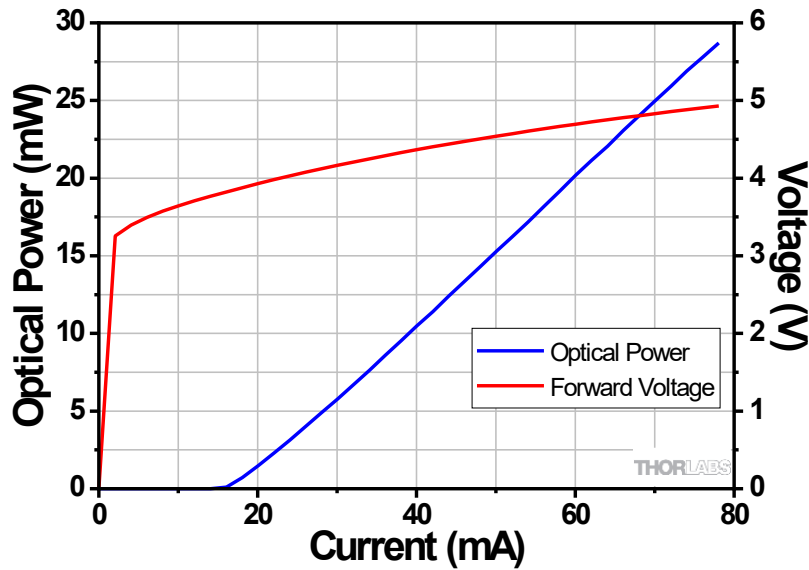
Optical and Electrical Specifications <sup>b</sup>			
	Min	Typ.	Max
Wavelength	440 nm	450 nm	460 nm
Threshold Current	-	20 mA	60 mA
Optical Output Power ( $P_o$ )	-	25 mW	-
Slope Efficiency	0.10 mW/mA	0.45 mW/mA	-
Operating Current @ $P_o = 25$ mW	-	75 mA	140 mA
Operating Voltage @ $P_o = 25$ mW	-	5.0 V	7.0 V

- b. Temperature = 25 °C



## Performance Plots

### LP450-SF25 Performance



## Drawing

