



**LP635-SF8**

### 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 (Max)	2 V
PD Reverse Voltage (Max)	30 V
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	A
Fiber	SM600
Connector	FC/PC

Optical and Electrical Specifications			
	Min	Typical	Max
Wavelength	630 nm	635 nm	645 nm
Threshold Current <sup>a</sup>	-	45 mA	60 mA
Optical Output Power (P <sub>O</sub> )	-	8 mW	10 mW
Slope Efficiency <sup>a</sup>	0.10 W/A	0.25 W/A	-
Operating Current @ P <sub>O</sub> = 8 mW <sup>a</sup>	-	85 mA	100 mA
Operating Voltage @ P <sub>O</sub> = 8 mW <sup>a</sup>	-	2.3 V	3.0 V
Monitor Current @ P <sub>O</sub> = 8 mW <sup>a</sup>	0.05 mA	0.15 mA	0.40 mA

a. Temperature = 25 °C



## Drawing

