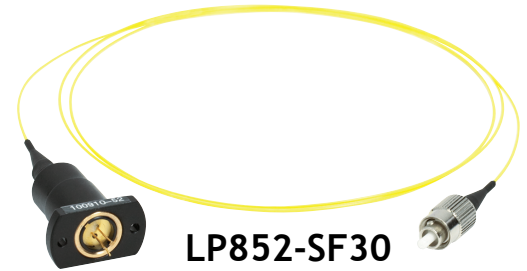


Description

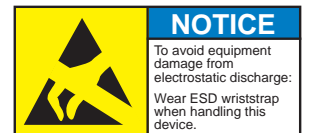
Thorlabs' Single Mode Pigtailed Laser Diodes are standard TO-packaged diodes that have been pigtailed to a 1 m long single mode fiber with an FC/PC connector. Each unit is tested before shipment. Please refer to the unit-specific test datasheet for optimal operating parameters.



LP852-SF30

Specifications

Absolute Maximum Ratings ^a		
LD Reverse Voltage (Max)	2 V	
PD Reverse Voltage (Max)	20 V	
Optical Output Power	30 mW (Typ.)	40 mW (Max)
Operating Temperature	0 to 50 °C	
Storage Temperature	-10 to 65 °C	
Pin Code	9A	
Fiber Specifications		
Fiber	SM800-5.6-125	
Connector	FC/PC	



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

LP852-SF30 Specifications			
	Min	Typ.	Max
Wavelength	842 nm	852 nm	862 nm
Threshold Current ^b	-	20 mA	50 mA
Optical Output Power	-	30 mW	40 mW
Slope Efficiency ^b	0.15 mW/mA	0.29 mW/mA	-
Operating Current @ $P_0 = 30 \text{ mW}^b$	-	115 mA	160 mA
Operating Voltage @ $P_0 = 30 \text{ mW}^b$	-	1.9 V	2.2 V
Monitor Current @ $P_0 = 30 \text{ mW}^b$	0.1 mA	0.5 mA	1.0 mA

- b. Temperature = 25 °C

Drawing

