

### LPS-PM830-FC



### Description

Thorlabs' PM Pigtailed Laser Diodes are standard TO-packaged diodes that have been pigtailed to a 1 m long polarization maintaining fiber with a 2.0 mm narrow key FC/PC connector. The slow axis of the fiber has been aligned to the key of the connector. We test each pigtail before shipment to customers and a unit-specific spec sheet is included with each pigtail; please use the included spec sheet 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	Ø5.6 mm
Pin Code	C
Fiber	PM780-HP
Connector	FC/PC, 2.0 mm Narrow Key Slow Axis Aligned to Key



#### Optical and Electrical Specifications<sup>a</sup>

	Min	Typical	Max
Wavelength	820 nm	830 nm	840 nm
Threshold Current <sup>a</sup>	-	25 mA	50 mA
Optical Output Power (P <sub>0</sub> )	8.0 mW	10.0 mW	12.0 mW
Slope Efficiency <sup>a</sup>	0.1 mW/mA	0.4 mW/mA	-
Operating Current @ P <sub>0</sub> = 10 mW <sup>a</sup>	-	50 mA	90 mA
Operating Voltage @ P <sub>0</sub> = 10 mW <sup>a</sup>	-	2.0 V	3.0 V
Monitor Current @ P <sub>0</sub> = 10 mW <sup>a</sup>	0.05 mA	0.2 mA	0.6 mA
Polarization Extinction Ratio	15 dB	-	-

- a. Temperature = 25 °C

## Drawings

