

L785P5



Description

Thorlabs' L785P5 is a 785 nm AlGaAs laser diode with 5 mW typical output power. It is packaged in a standard Ø5.6 mm TO Can package and has an A pin configuration.

Specifications

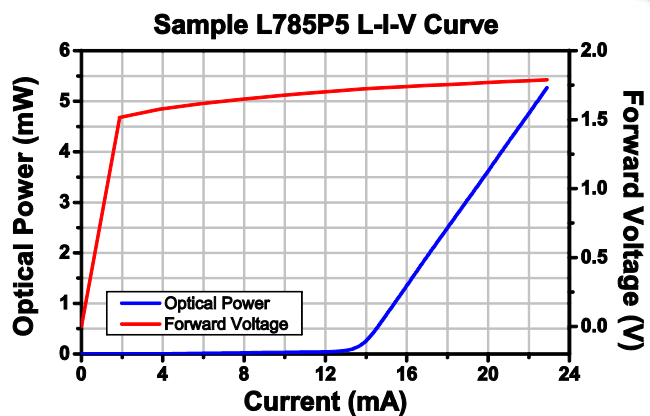
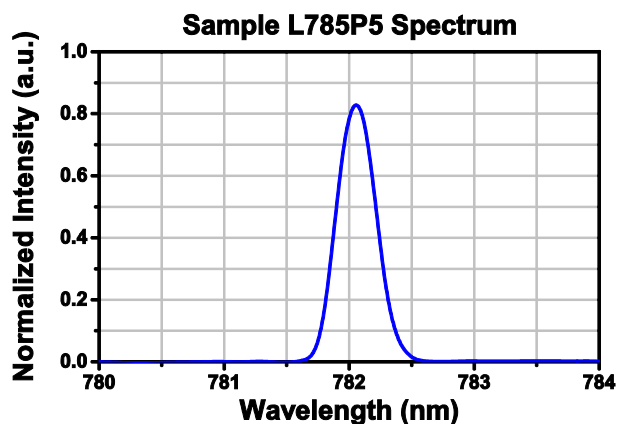


L785P5	
LD Reverse Voltage (Max)	2 V
PD Reverse Voltage (Max)	30 V
Absolute Max Current	40 mA
Absolute Max Power (CW)	5 mW
Operating Temperature	-10 to 60 °C
Storage Temperature	-40 to 80 °C

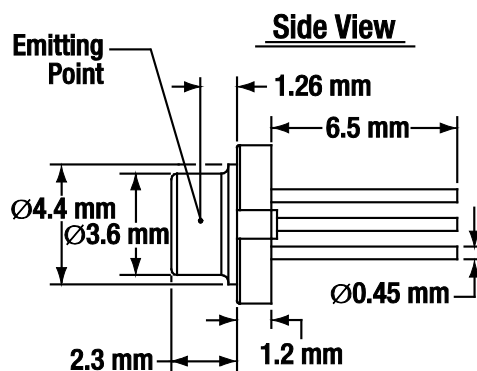
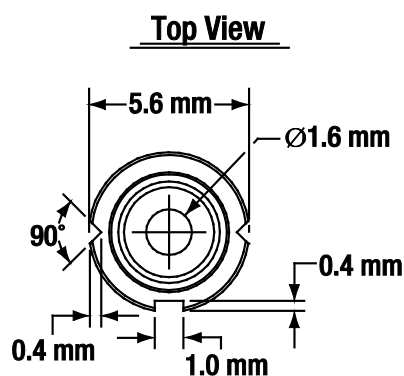
L785P5				
	Symbol	Min	Typical	Max
Center Wavelength	λ_c	770 nm	785 nm	795 nm
Output Power (CW)	P_o	-	5 mW	-
Forward Voltage @ P_o	V_{OP}	-	1.9 V	2.5 V
Parallel Beam Divergence Angle (FWHM) @ P_o	$\theta_{ }$	8°	10°	12°
Perpendicular Beam Divergence Angle (FWHM) @ P_o	$\theta_{\perp}$	25°	29°	32°
Operating Current @ P_o	I_{OP}	-	28 mA	40 mA
Threshold Current	I_{TH}	10 mA	20 mA	25 mA
Monitor Current @ P_o	I_M	-	0.5 mA	1 mA
Slope Efficiency	η	0.4 mW/mA	0.5 mW/mA	0.7 mW/mA

$T_{CHIP} = 25\text{ °C}$

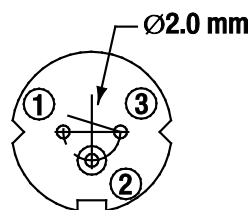
Typical Performance Plots



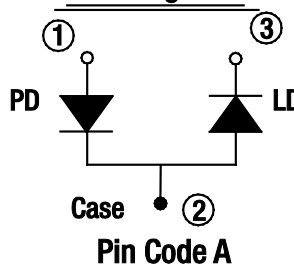
Drawing



Bottom View



Pin Diagram



Pin	Description
1	Monitor Diode Anode
2	Case Common
3	Laser Cathode