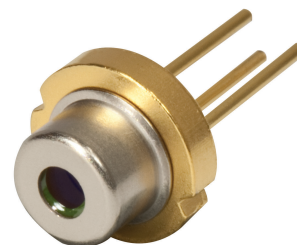


L785P25



Description

Thorlabs' L785P25 is a 785 nm, MOCVD-grown, AlGaAs laser diode with 25 mW typical output power. It is packaged in a standard Ø5.6 mm TO Can package and has a B pin configuration.

Specifications

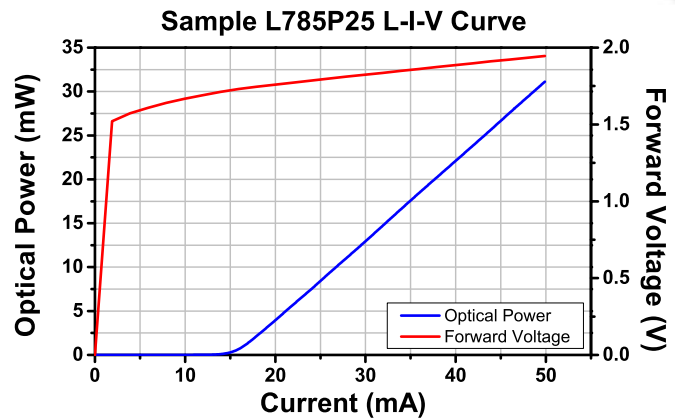
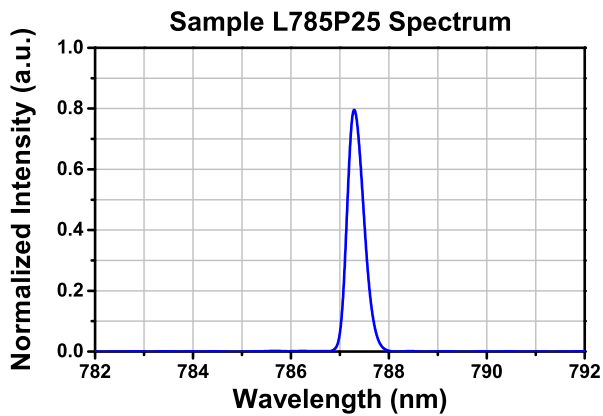


L785P25	
LD Reverse Voltage (Max)	2 V
PD Reverse Voltage (Max)	30 V
Absolute Max Current	60 mA
Absolute Max Power (CW)	30 mW
Operating Temperature	-10 to 60 °C
Storage Temperature	-40 to 85 °C

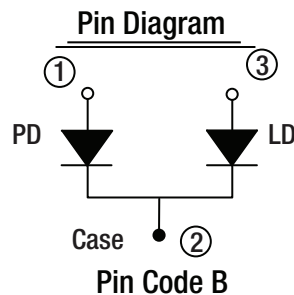
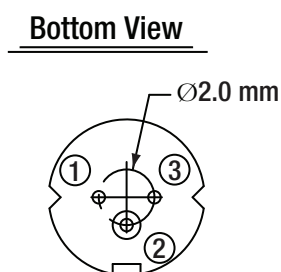
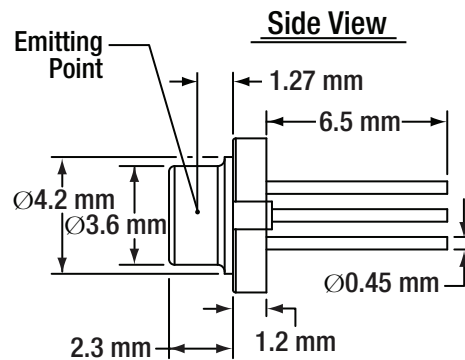
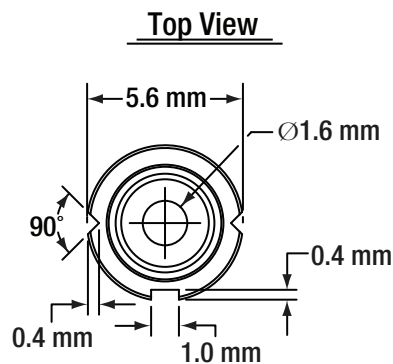
L785P25				
	Symbol	Min	Typical	Max
Center Wavelength	λ_c	770 nm	785 nm	800 nm
Output Power (CW)	P_o	-	25 mW	-
Forward Voltage @ P_o	V_F	1.6 V	1.9 V	2.3 V
Parallel Beam Divergence Angle (FWHM) @ P_o	$\theta_{ }$	6°	8°	13°
Perpendicular Beam Divergence Angle (FWHM) @ P_o	$\theta_{\perp}$	25°	30°	34°
Operating Current @ P_o	I_{OP}	30 mA	45 mA	60 mA
Threshold Current	I_{TH}	-	15 mA	25 mA
Monitor Current @ P_o	I_M	0.5 mA	-	1.5 mA
Slope Efficiency	η	0.5 mW/mA	0.9 mW/mA	1.4 mW/mA

$T_{CHIP} = 25\text{ °C}$

Typical Performance Plots



Drawing



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