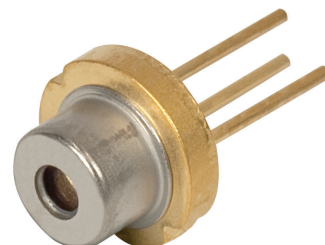


638 nm Multimode Laser Diode, 700 mW

L638P700M



Description

Thorlabs' Ø5.6 mm, TO-can package, discrete laser diode is a compact light source suited to many applications. This diode is manufactured by Oclaro as Item # HL63193MG. This laser is fully compatible with our line of Laser diode and TEC Controllers as well as our selection of Laser Diode Mounts and Collimation Solutions.

Specifications



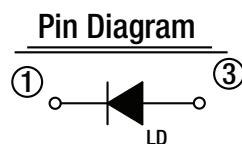
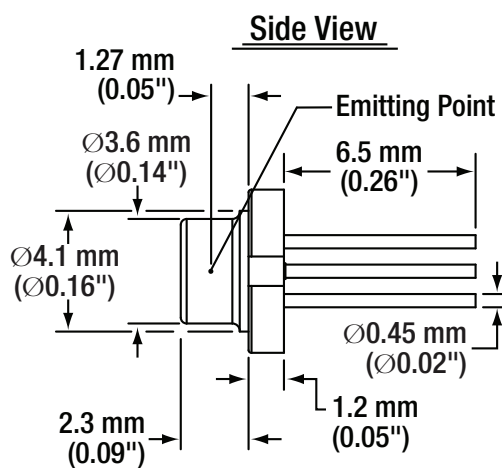
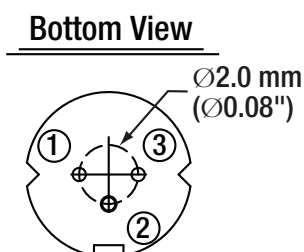
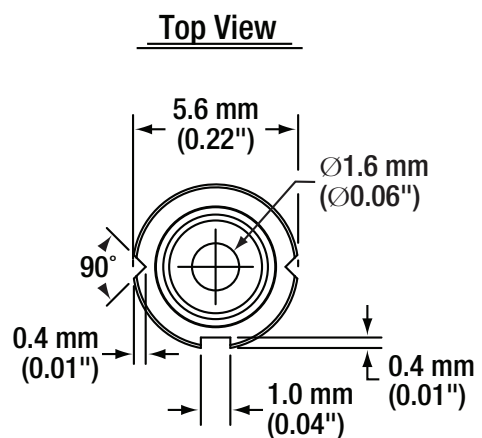
Absolute Max Ratings	
LD Reverse Voltage	2 V
Pulsed Optical Power ^a	1000 mW
Optical Output Power (CW)	700 mW
Operating Temperature	-10 to 40 °C
Storage Temperature	-40 to 85 °C

a. Pulse Frequency \geq 50 Hz, Duty \leq 33%

L638P700M				
	Symbol	Min	Typical	Max
Center Wavelength	λ_c	632 nm	638 nm	643 nm
Output Power (CW)	P_o	-	700 mW	-
Forward Voltage @ P_o	V_{OP}	-	2.2 V	2.6 V
Parallel Beam Divergence Angle (FWHM) @ P_o	$\theta_{ }$	1°	9°	20°
Perpendicular Beam Divergence Angle (FWHM) @ P_o	θ_{\perp}	25°	35°	45°
Operating Current @ P_o	I_{OP}	-	820 mA	1000 mA
Threshold Current	I_{TH}	-	200 mA	250 mA
Slope Efficiency	η	-	1.2 mW/mA	-

$T_{CHIP} = 25\text{ °C}$

Drawing



Case • ②

Pin Code G

Pin	Description
1	Laser Cathode
2	Case Common
3	Laser Anode