

L852P50

### 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 # HL8342MG. 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.

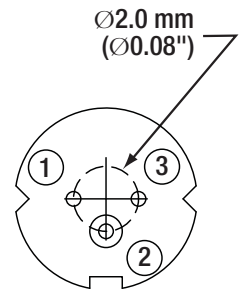
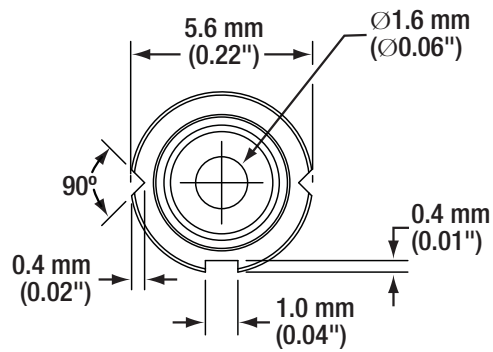
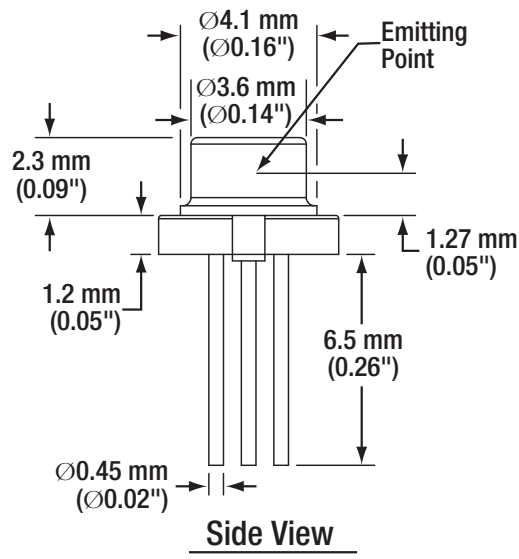
### Specifications

Specification	Max
LD Reverse Voltage	2V
PD Reverse Voltage	30 V
Storage Temperature	-40 to 85 °C
Operation Case Temperature	-10 to 60 °C

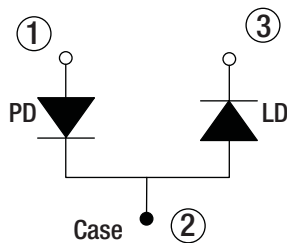
L852P50				
	Symbol	Min	Typical	Max
Center Wavelength	$\lambda_o$	848 nm	852 nm	856 nm
Output Power	$P_o$	-	-	50 mW
Operating Current CW @ $P_o$	$I_{op}$	-	75 mA	100 mA
Threshold Current	$I_{TH}$	-	20 mA	40 mA
Operating Voltage @ $P_o$	$V_{op}$	-	1.9 V	2.4 V
Beam Divergence (FWHM) Parallel @ $P_o$	$\theta_{//}$	6°	9°	12°
Beam Divergence (FWHM) Perpendicular @ $P_o$	$\theta_{\perp}$	18°	22°	26°
Monitor Current	$I_s$	0.1 mA	0.25 mA	0.5 mA

$T_{CHIP} = 25^{\circ}C$

## Drawings



## Pin Code



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