

L852P150



Description

Thorlabs Ø9 mm, TO-can package, discrete laser diode is a compact light source suited to many applications. Our lasers are 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
Storage Temperature	-40 to 80 °C
Operation Case Temperature	-20 to 50 °C
Lead Soldering Temperature	250 °C

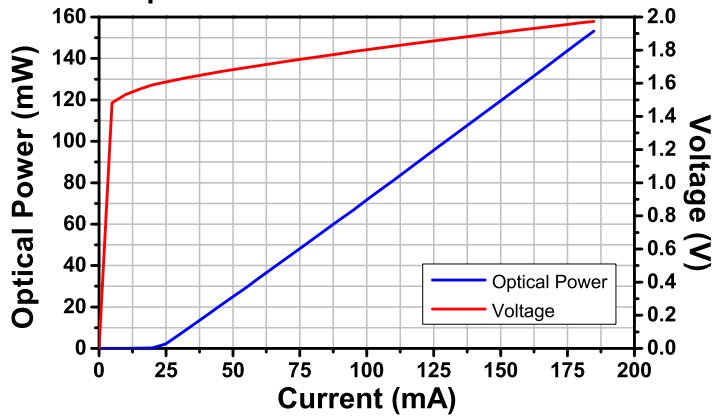


L852P150				
	Symbol	Min	Typical	Max
Center Wavelength	λ_o	847 nm	852 nm	857 nm
Spectrum (FWHM)		-	0.5 nm	2.0 nm
Output Power	P_o	-	150 mW	-
Operating Current CW @ P_o	I_{op}	-	170 mA	220 mA
Threshold Current	I_{TH}	-	20 mA	40 mA
Monitor Current @ P_o	I_s	-	0.13 mA	-
Operating Voltage @ P_o	V_{op}	-	1.9 V	2.2 V
Beam Divergence (FWHM) Parallel @ P_o	$\theta_{//}$	-	8°	10°
Beam Divergence (FWHM) Perpendicular @ P_o	$\theta_{\perp}$	-	18°	23°
Slope Efficiency	$\Delta P/\Delta I$	0.9 W/A	1.0 W/A	-

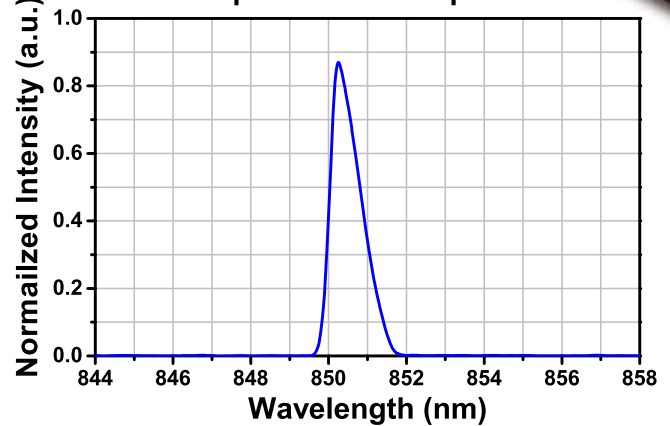
$T_{CHIP} = 25^{\circ}\text{C}$

Graphs

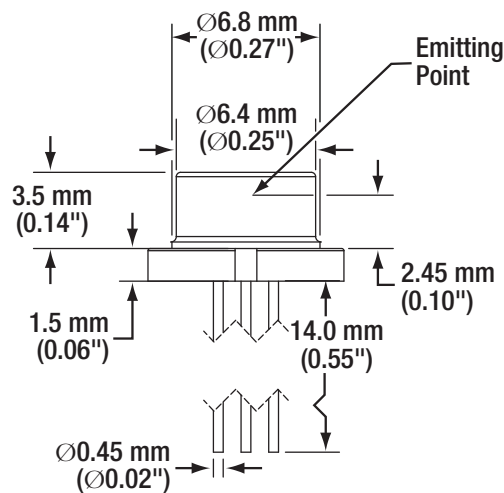
Sample L852P150 L-I-V Characteristics



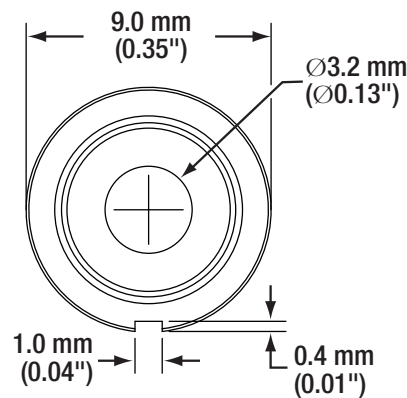
Sample L852P150 Spectrum



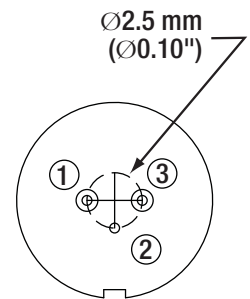
Drawings



Side View

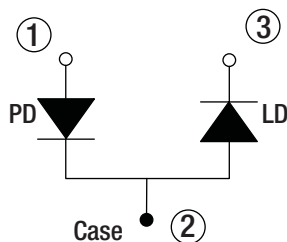


Top View



Rear View

Pin Code



Pin Code A

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