

L635P5



Description

Thorlabs' Ø5.6 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

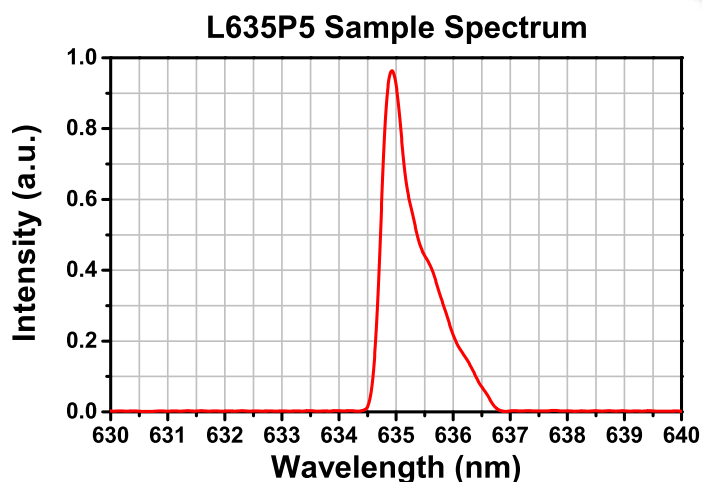
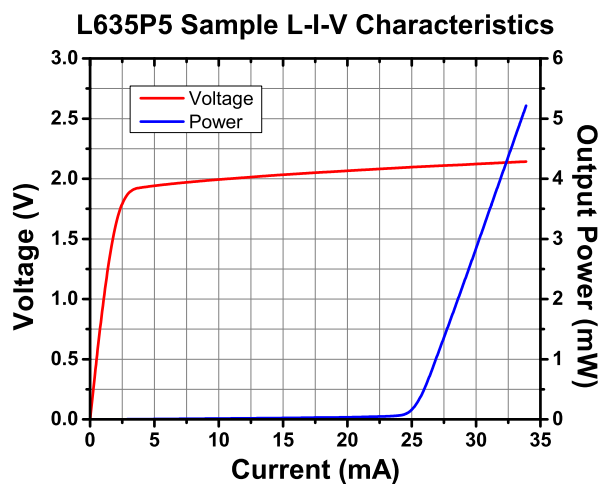
Absolute Max Ratings	
Specification	Max
Optical Output Power	6 mW
LD Reverse Voltage	2 V
PD Reverse Voltage	30 V
Operating Temperature	-10 to 50 °C
Storage Temperature	-40 to 85 °C



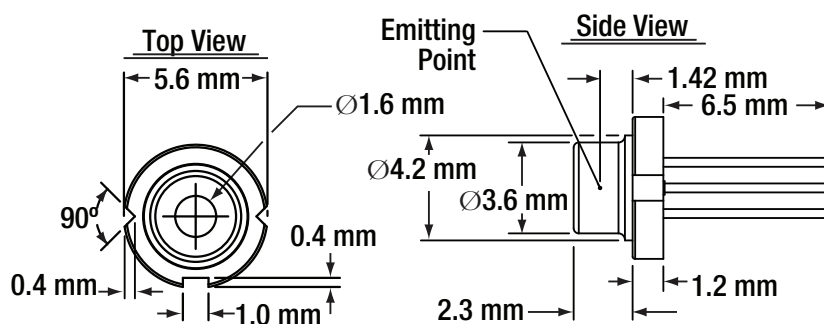
L635P5				
	Symbol	Min	Typical	Max
Center Wavelength	λ_o	635 nm	-	643 nm
Output Power	P_o	-	5 mW	-
Operating Current CW @ P_o	I_{op}	-	30 mA	45 mA
Threshold Current	I_{TH}	-	20 mA	40 mA
Monitor Current @ P_o	I_s	0.08 mA	0.15 mA	0.4 mA
Operating Voltage @ P_o	V_{op}	-	2.2 V	2.7 V
Beam Divergence (FWHM) Parallel @ P_o	$\theta_{//}$	6°	8°	10°
Beam Divergence (FWHM) Perpendicular @ P_o	$\theta_{\perp}$	27°	32°	36°
Beam Deviation Angle @ P_o (Parallel)	$\Delta\theta_{//}$	-3°	-	3°
Beam Deviation Angle @ P_o (Perpendicular)	$\Delta\theta_{\perp}$	-3°	-	3°
Slope Efficiency	η	-	0.6 W/A	-

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

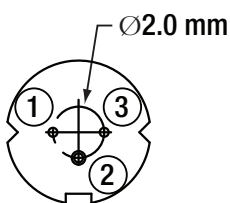
Graphs



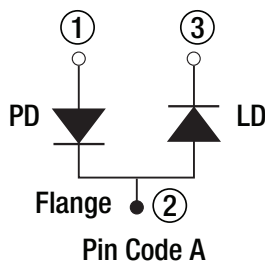
Drawings



Bottom View



Pin Diagram



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