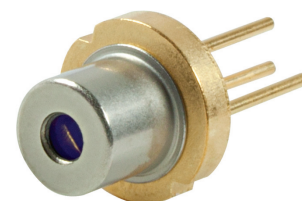


L880P010



Description

Thorlabs Ø5.6 mm, TO-18 package, discrete laser diode is a compact light source suited to many applications.

Specifications

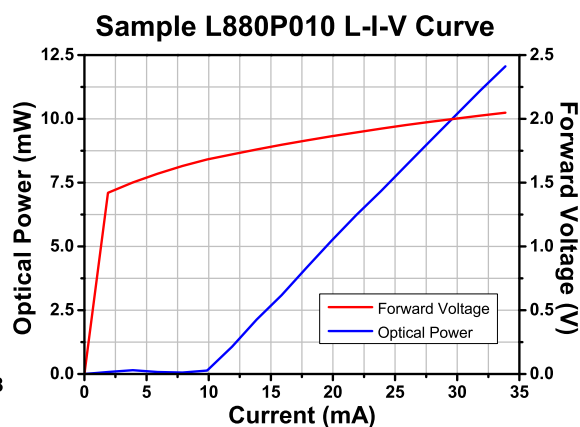
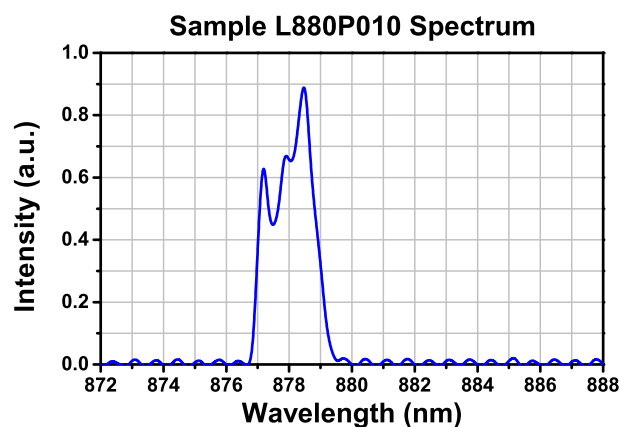
L880P010	
LD Reverse Voltage (Max)	2 V
Absolute Max Current	50 mA
Absolute Max Power	12 mW
Operating Temperature	-10 to 50 °C
Storage Temperature	-40 to 85 °C
Pin Code	A



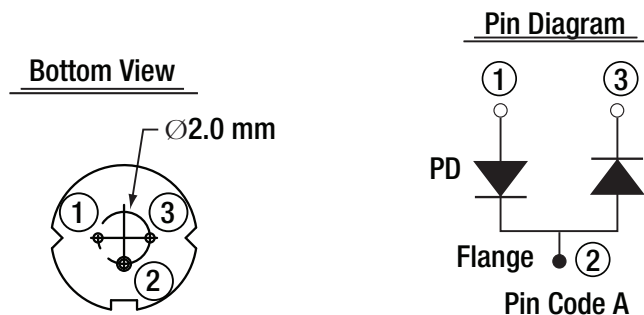
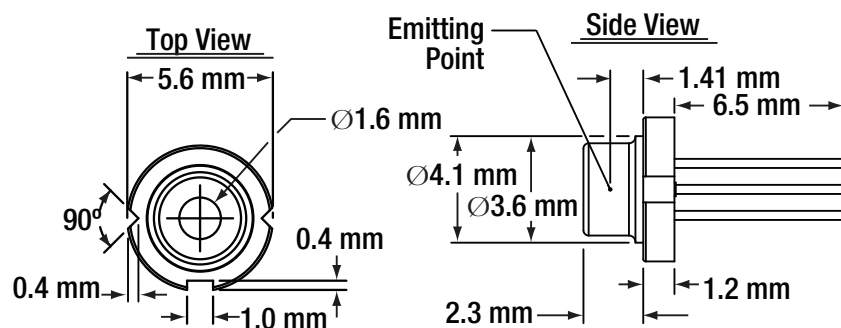
L880P010				
	Symbol	Min	Typical	Max
Center Wavelength	λ_c	870 nm	880 nm	886 nm
Output Power	P_o	-	10 mW	-
Operating Current CW @ P_o	I_{OP}	-	30 mA	40 mA
Threshold Current @ P_o	I_{TH}	-	12 mA	16 mA
Forward Voltage @ P_o	V_F	-	2.0 V	2.6 V
Monitor Current @ P_o	I_m	-	0.3 mA	-
Slope Efficiency	$\Delta P/\Delta I$	-	0.5 W/A	-
Perpendicular Beam Divergence Angle (FWHM) @ P_o	$\theta_{\perp}$	-	37°	-
Parallel Beam Divergence Angle (FWHM) @ P_o	$\theta_{\parallel}$	-	12°	-

$T_{CHIP} = 25\text{ °C}$

Typical Performance Plots



Drawings



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