

980 nm Laser Diode, 100 mW



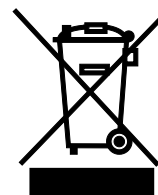
L980P100A

Description

Thorlabs' Ø5.6 mm laser diode is a compact light source suited to many applications. This diode 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

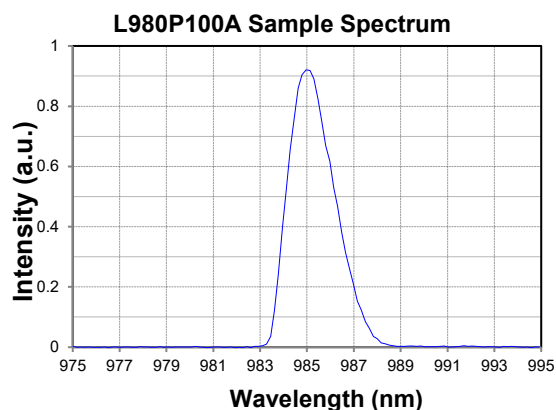
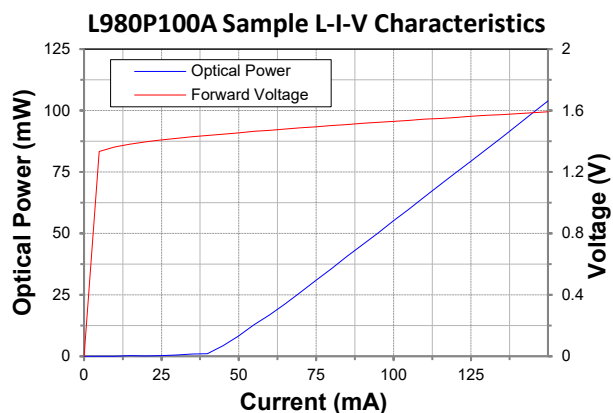
Absolute Maximum Ratings	
Specification	Maximum
Output Power, CW	100 mW
LD Reverse Voltage	2 V
PD Reverse Voltage	30 V
Operating Current	200 mA
Operating Case Temperature	-10 to +40 °C
Storage Temperature	-40 to +85 °C



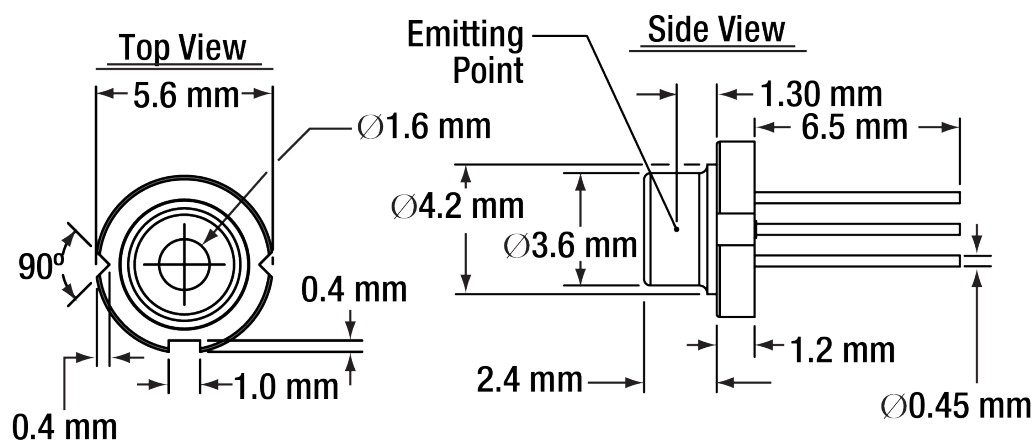
L980P100A Specifications				
	Symbol	Min	Typical	Max
Center Wavelength	λ_o	965 nm	980 nm	995 nm
Output Power	P_{op}	-	-	100 mW
Operating Current	I_{op}	-	150 mW	190 mW
Threshold Current	I_{TH}	-	40 mA	50 mA
Monitor PD Current	I_m	-	0.6 mA	-
Operating Voltage	V_{op}	1 V	1.6 V	2.1 V
Beam Divergence (FWHM) Parallel	$\theta_{ }$	-	6°	-
Beam Divergence (FWHM) Perpendicular	$\theta_{\perp}$	27°	32°	37°
Slope Efficiency	η	0.5 W/A	0.9 W/A	-

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

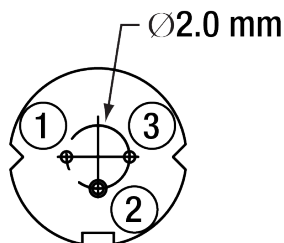
Graphs



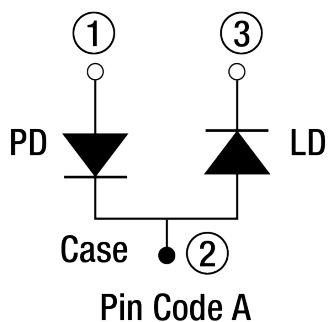
Drawings



Bottom View



Pin Diagram



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