

L980P200



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	200 mW
LD Reverse Voltage	2 V
PD Reverse Voltage	30 V
Operating Temperature	-10 to 40°C
Storage Temperature	-40 to 85°C

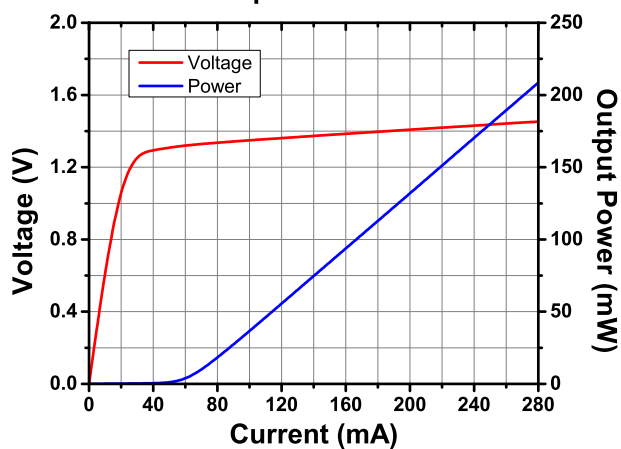


L980P200				
	Symbol	Min	Typical	Max
Center Wavelength	λ_o	970 nm	980 nm	990 nm
Output Power	P_o	-	200 mW	-
Operating Current CW @ P_o	I_{op}	-	300 mA	400 mA
Threshold Current	I_{TH}	-	60 mA	80 mA
Monitor Current @ P_o	I_s	-	0.7 mA	-
Operating Voltage @ P_o	V_{op}	1 V	1.5 V	2.1 V
Beam Divergence (FWHM) Parallel @ P_o	$\theta_{//}$	-	6°	-
Beam Divergence (FWHM) Perpendicular @ P_o	$\theta_{\perp}$	27°	30°	37°
Slope Efficiency	η	0.5 W/A	0.9 W/A	-

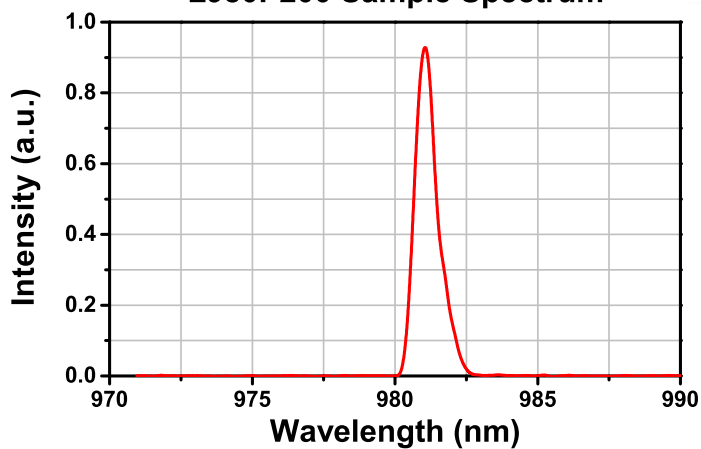
$T_{CHIP} = 25^{\circ}C$

Graphs

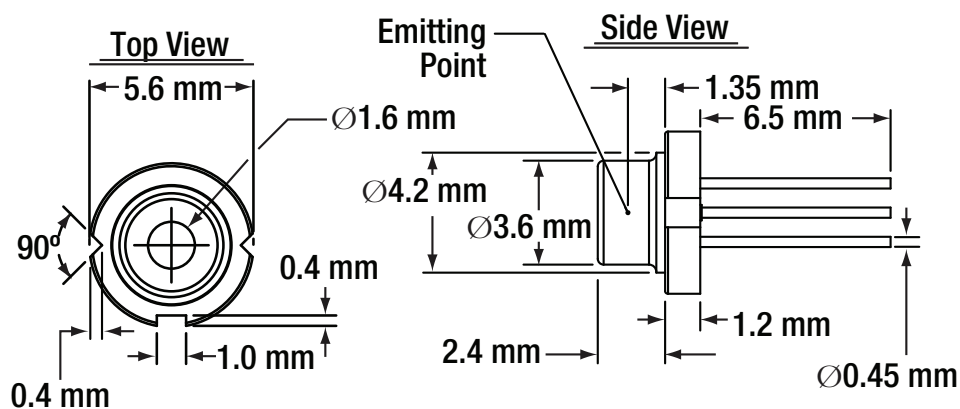
L980P200 Sample L-I-V Characteristics



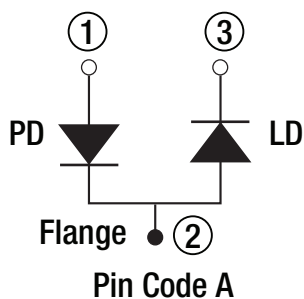
L980P200 Sample Spectrum



Drawings



Pin Diagram



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