

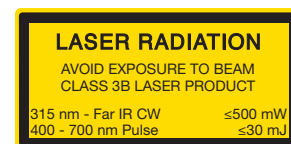
L980P010

Description

Thorlabs Ø5.6 mm, TO-18 package, discrete laser diode is a compact light source suited to many applications. Our lasers are fully compatible with our entire line of Laser Diode and TEC Controllers as well as our selection of Laser Diode Mounts and Collimation Solutions.

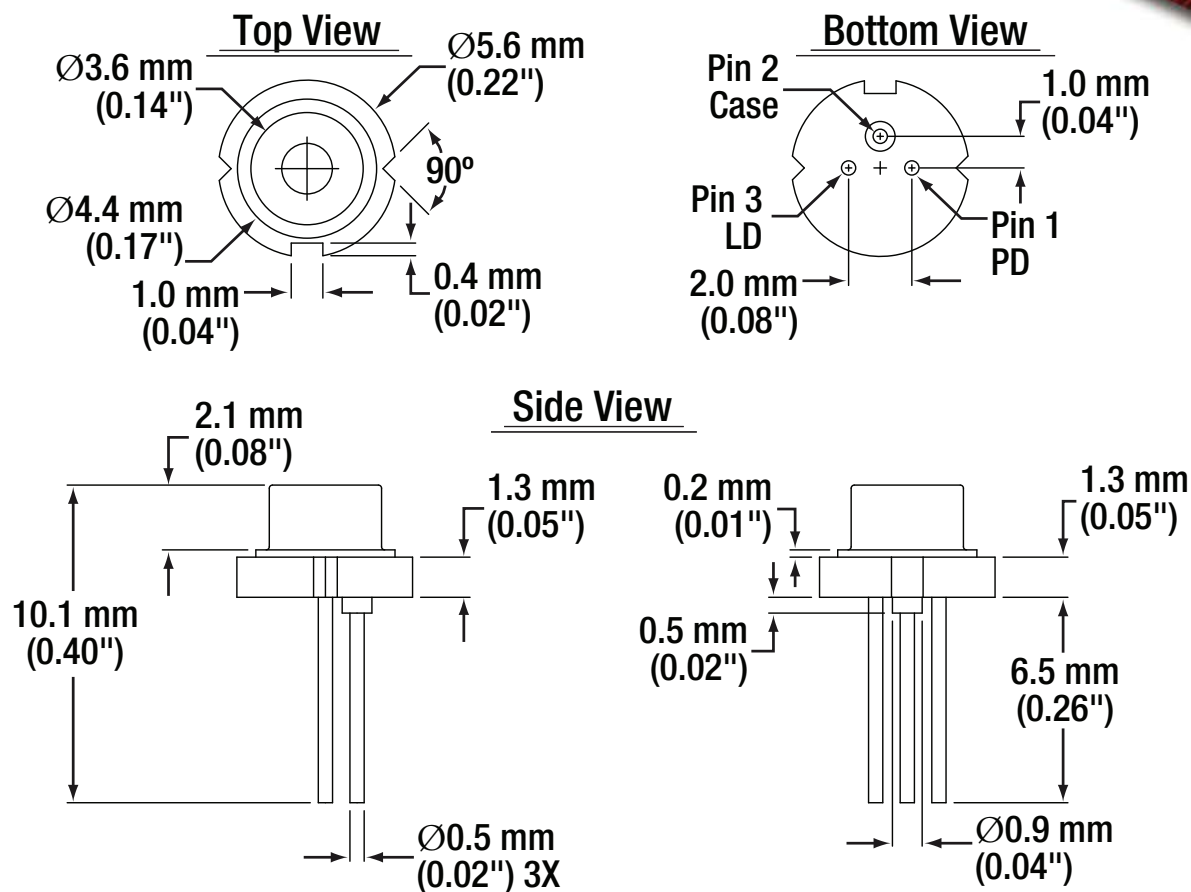
Specifications

Specification	Max
Storage Temperature	-40 to 85 °C
Operation Case Temperature	-10 to 50 °C
LD Reverse Voltage	2 V _R (LD)
PD Reverse Voltage	30 V _R (PD)

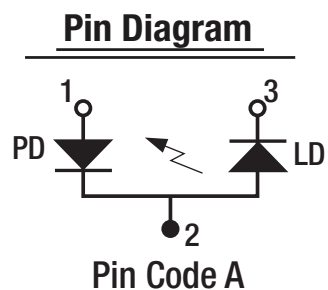


L980P010				
	Symbol	Min	Typical	Max
Center Wavelength	λ_c	970 nm	980 nm	990 nm
Output Power	P _o	-	10 mW	-
Operating Current	I _{op}	-	25 mA	40 mA
Threshold Current	I _{TH}	-	15 mA	25 mA
Monitor Current	I _m	10 µA	50 µA	90 µA
Operating Voltage	V _{op}	-	1.5 V	2.2 V
Slope Efficiency	$\Delta P/\Delta I$	0.5 W/A	0.8 W/A	-
Beam Divergence	$\theta_{//}$	10°	13°	18°
Beam Divergence	$\theta_{\perp}$	25°	30°	40°
Beam Angle Deviation	$\theta_{//}$	-3°	-	3°
Beam Angle Deviation	$\theta_{\perp}$	-3°	-	3°
Monitor Current	I _m	10 µA	50 µA	90 µA
Emission Point Accuracy	ΔX	-80 µm	-	80 µm
Emission Point Accuracy	ΔY	-80 µm	-	80 µm
Emission Point Accuracy	ΔZ	-80 µm	-	80 µm
Astigmatism	A _s	-	-	15 µm

Drawings



Pin Code



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