

L904P010



Description

Thorlabs Ø5.6 mm TO packaged discrete laser diode is a compact light source suited to many applications. This laser diode is compatible with our line of laser diode and TEC controllers as well as our selection of collimation solutions and TO can laser diode mounts.

Specifications

Absolute Maximum Ratings ^a	
Specification	Maximum
Optical Output Power, CW	10 mW
LD Reverse Voltage	2 V
PD Reverse Voltage	30 V
Operating Temperature	-10 °C to 50 °C
Storage Temperature	-40 °C to 85 °C



- a. Absolute Maximum Rating specifications should never be exceeded. Operating at or beyond these conditions can permanently damage the laser.

L904P010 Specifications ^a				
	Symbol	Min	Typical	Max
Center Wavelength @ P _{op} ^b	λ_o	890 nm	904 nm	920 nm
Threshold Current	I _{TH}	-	25 mA	40 mA
Operating Current, CW @ P _{op} ^b	I _{op}	-	50 mA	70 mA
Operating Voltage @ P _{op} ^b	V _{op}	-	2.0 V	2.5 V
Slope Efficiency	η	0.3 mW/mA	0.5 mW/mA	0.7 mW/mA
Beam Divergence (FWHM) @ P _{op} ^b	Parallel	$\theta_{//}$	8°	10°
	Perpendicular	θ_{\perp}	25°	30°
Monitor Current @ P _{op} ^b	I _{PD}	0.05 mA	0.3 mA	1.0 mA

- a. T_{CASE} = 25 °C if not specified.
b. P_{op} = 10 mW

Drawing

