

## Laser Diode



L780P010



### Description

Thorlabs Ø5.6 mm, TO-18 can package discrete laser diode is a compact light source suited to many application. 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	Symbol	Max
Optical Output Power, mW	$P_o$	12
LD Reverse Voltage, V	$V_{R(LD)}$	2
PD Reverse Voltage, V	$V_{R(PD)}$	30
Operation Case Temperature, °C	$T_{op}$	-10 to 60
Storage Temperature, °C	$T_{STG}$	-40 to 85

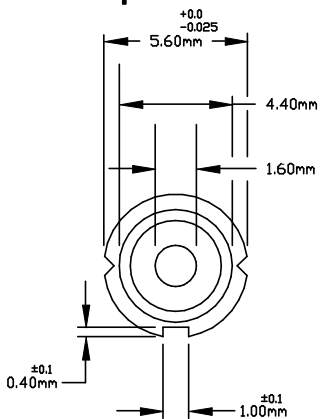
( $P_o = 10$  mW,  $T_c = 25$  °C)

Specification	Symbol	Min	Typ	Max
Threshold Current, mA	$I_{th}$		14	20
Operation Current, mA	$I_{op}$		24	40
Operating Voltage, V	$V_{op}$		1.8	2.5
Lasing Wavelength, nm	$\lambda_p$	770	780	790
Beam Divergence	$\theta_{//}$	6°	8°	12°
Beam Divergence	$\theta_{\perp}$	25°	30°	32°
Slope Efficiency, mW/mA	$\eta$	0.5	0.65	0.9
Monitor Current, mA	$I_m$	0.3	0.7	1.5
Astigmatism, $\mu$ m	$A_s$		10	15

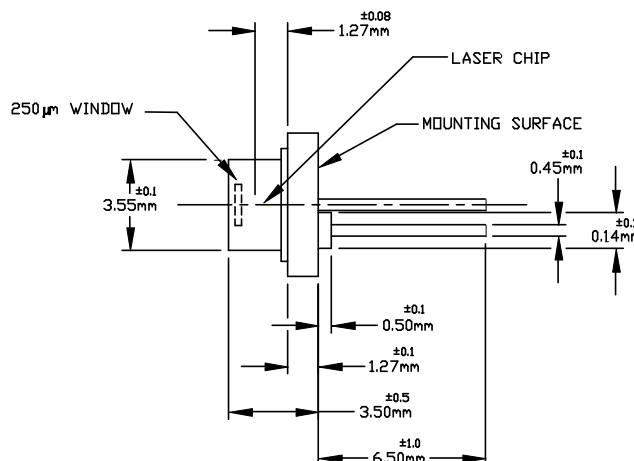
### Drawings



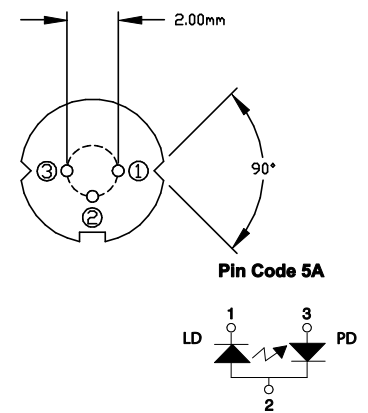
Top View



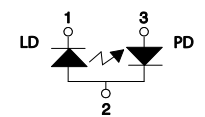
Side View



Bottom View



Pin Code 5A



Pin Description

- 1 Laser Cathode
- 2 Case Common
- 3 Monitor Diode Anode

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