

Laser Diode



L808P200



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

($P_o = 200 \text{ mW}$, $T_c = 25 \text{ }^\circ\text{C}$)

Specification	Symbol	Max
Optical Output Power, mW	P_o	200
LD Reverse Voltage, V	$V_{R(LD)}$	2
PD Reverse Voltage, V	$V_{R(PD)}$	30
Operation Case Temperature, $^\circ\text{C}$	T_{op}	-10 to 50
Storage Temperature, $^\circ\text{C}$	T_{STG}	-40 to 85

*) $V_R = 5 \text{ V}$

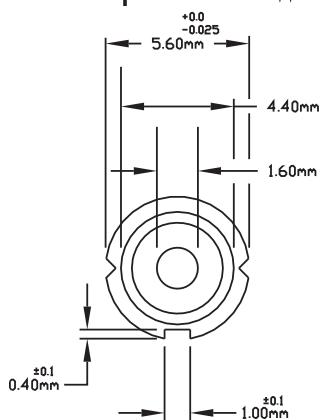
**) $NA = 0.4$

Specification	Symbol	Min	Typ	Max
Lasing Wavelength, nm	λ_p	805	808	811
Threshold Current, mA	I_{th}	60	80	100
Operation Current, mA	I_{op}	220	260	300
Operating Voltage, V	V_{op}	1.8	2.0	2.5
Monitor Current*, mA	I_m	0.5	1.3	2.0
Slope Efficiency, mW/mA	η	0.5	0.7	0.9
Beam Divergence, $^\circ$	$\theta_{//}$	8	10	12
Beam Divergence, $^\circ$	$\theta_{\perp}$	25	30	40
Astigmatism**, μm	A_s		11	

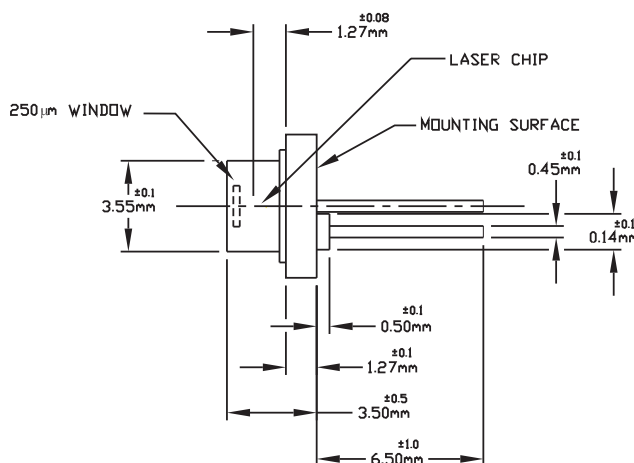
Drawings



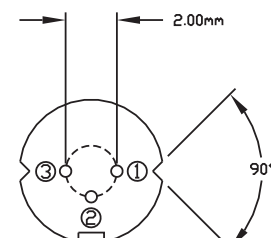
Top View



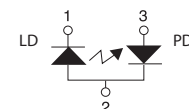
Side View



Bottom View



Pin Code 5A



Pin Description

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

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