TO3 2Pin high power laser diode

Characteristics:

- High reliability
- Au-Sn hard solder
- High brightness
- High stability

Applications:

- Material processing
- Medical/Life and health sciences
- Illumination

Characteristics:

Characteristics (@25°)	Symbol						Unit
Output Power	Po	1.0	2.0	3.0	4.0	5.0	W
Operating Current	Iop	1.2	2.2	3.0	4.3	5.5	A
Threshold Current	Ith	0.2	0.35	0.45	0.9	1.0	A
Wavelength	λc	808 / 915 / 940 / 976					nm
Wavelength Tolerance		+/-7	+/-7	+/-7	+/-7	+/-7	nm
Spectral Width (FWHM)	Δλ	<3	<3	<3	<3	<3	nm
Wavelength Temperature Coeff.	Δλ/ΔT	0.3	0.3	0.3	0.3	0.3	nm/° C
Slope Efficiency	η	>1.1	>1.1	>1.1	>1.1	>1.1	W/A
Polarization	TM/TE	TE	TE	TE	TE	TE	
Power Conversion Efficiency	η_{TOT}	50	50	50	50	50	%
Parallel beam divergence	θ //	8	8	8	8	8	Deg
Parpendicular beam divergence	θ⊥	8	8	8	8	8	Deg
Electrical							
Maximum Operating Voltage	Vop	⩽2.0					V
Maximum Reverse Voltage	Vre	⩽2.5					V
Mechanical							
Housing Dimension		See Drawing					
Lead Soldering Temp		260° C for <5 seconds					
Environmental							
Operating Temperature Range	Top	15 to 30					° C
Operating Humidity	Hop	Non-condensing					RH
Storage Temperature Range	T_{STG}	-20 to 80					° C

Customized wavelength and power are also available.Please contact IOL for specific requirements.

Innovative Optics Limited
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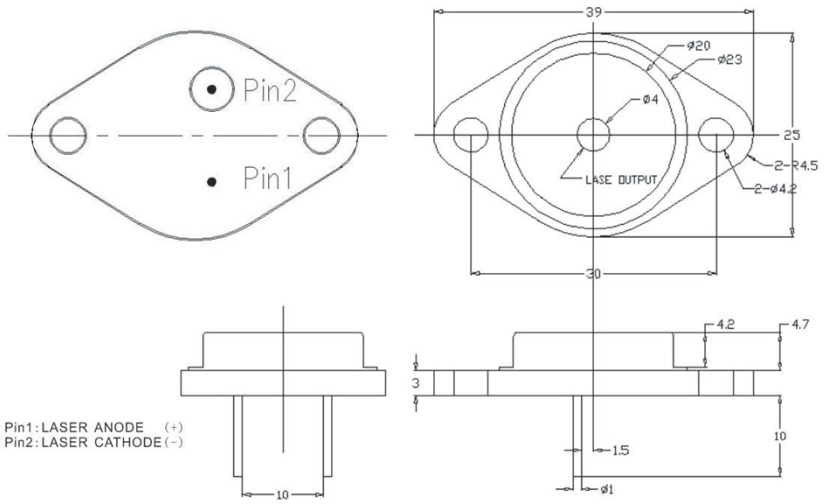
Mechanical:



Order information:

IO X1-X2X3X4-X5X6X7-X8 X9 X10

- X1 Fast Axis Collimation: 0=NA; 1=Special cylindrical lens (AR coating); 2=Normal cylindrical lens; 3=Normal cylindrical lens(Facula ratio=4:3)
- X2 Emitter width: 1=100μm; 2=150μm; 3=200μm; 5= 50μm; D=2*150 μm
- X3 Cavity length: 1=1mm; 2=2mm; 3=3mm; 4=4mm; 5=0.5mm
- X4 Power output : 010=1.0w; 020=2.0w; 025=2.5w; 050=5.0w
- X5X6X7 Wavelength: 808= 808nm; 975= 975nm; 064=1064nm; 550=1550nm
- X8 Package Type: B = BTF-4PIN; C = C-mount; Q = Q-mount; T = TO220 window; 1 = ct-mount; 2 = TO220 fiber; 3 = TO3 fiber; 4 = TO3 window
- X9 INNOVATIVE OPTICS LIMITED

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