



Specification for Approval

● Feature

- Typ. emission wavelength 1064nm
- Efficient radiation source for cw and pulsed Operation
- Single transverse mode semiconductor laser
- High modulation bandwidth
- Laser diode isolated against package

● Applications

- Laser projection
- Instrumentation
- Biomedical Applications
- Holography
- Metrology

● Product Overview:

This multimode 1064nm broad area laser diodes offer up to 3 watts of optical output power. They are used for sensing applications and are designed to operate in pulse mode. They are offered in a sealed TO5-can housing.

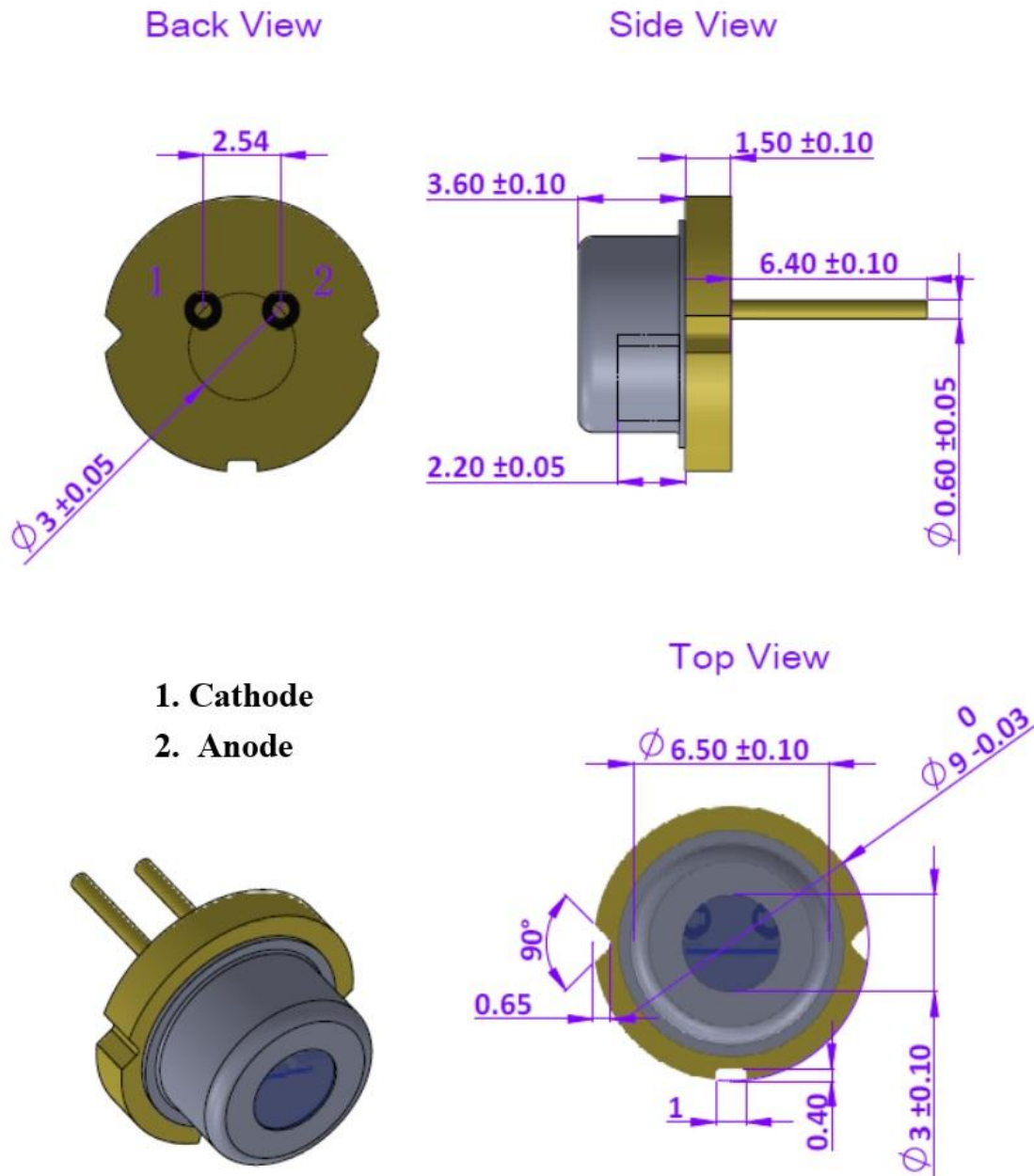
◆ Product photo:





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Package size :



Notes:

1. All dimensions are in millimeters .
2. Tolerance is ± 0.1 unless otherwise noted.
3. Specifications are subject to change without notice.



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Parameter	Symbol	Min.	Typ.	Max.①	Unit
Wavelength					
Peak Wavelength	λ_p	-	1064	-	nm
Spectral Bandwidth③	BW	-	3	-	nm
Electro Optical Data					
Operation Power	Pop	-	3	-	W
Operation Current	Iop	3	3.5	3.8	A
Threshold Current	Ith	-	0.4	-	A
Operation Voltage	Vop	-	1.8	-	V
Slope efficiency	$\eta_d = P_o / (I_{op} - I_{th})$	-	0.9	-	W/A
Total conversion efficiency	$\eta = P_o / (I_{op} \times V_{op})$		39		%
Beam Divergence Angle Width (Horizontal) ②	$\theta_{//}$	-	8	-	degree
Beam Divergence Angle Width (Vertical) ③	θ_{\perp}	-	28	-	degree
Geometrical					
Emitter width	w	-	150	-	μm
Cavity Length	L	-	1000	-	μm
Chip Width	W	-	500	-	μm
Chip Height	H	-	150	-	μm

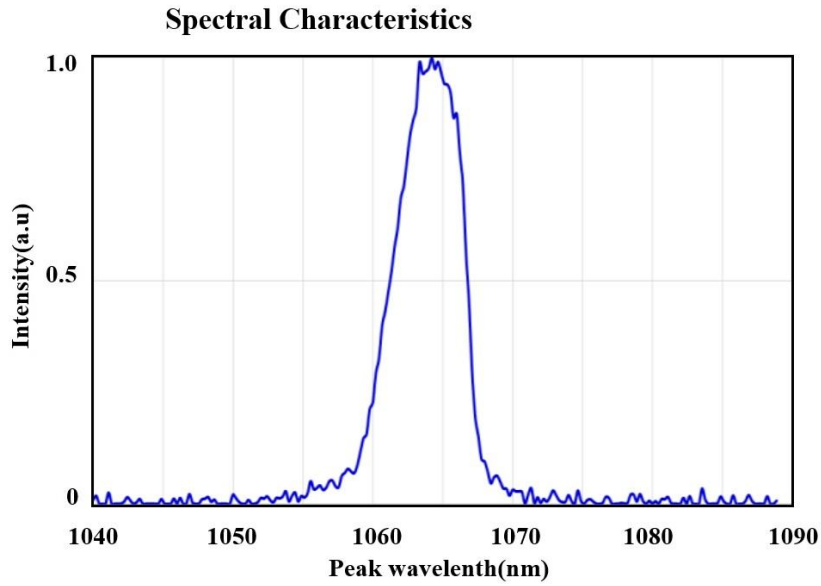
Notes :

- ①、The lifetime is not guaranteed if the laser is operated over the maximum rating
- ②、Full width at 95% power content
- ③、FWHM (Full width half maximum)



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TYPICAL ELECTRICAL CHARACTERISTICS





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Far Field Pattern Characteristics

