

AlGaInP Red Laser Diode

ADL-63V06CZ

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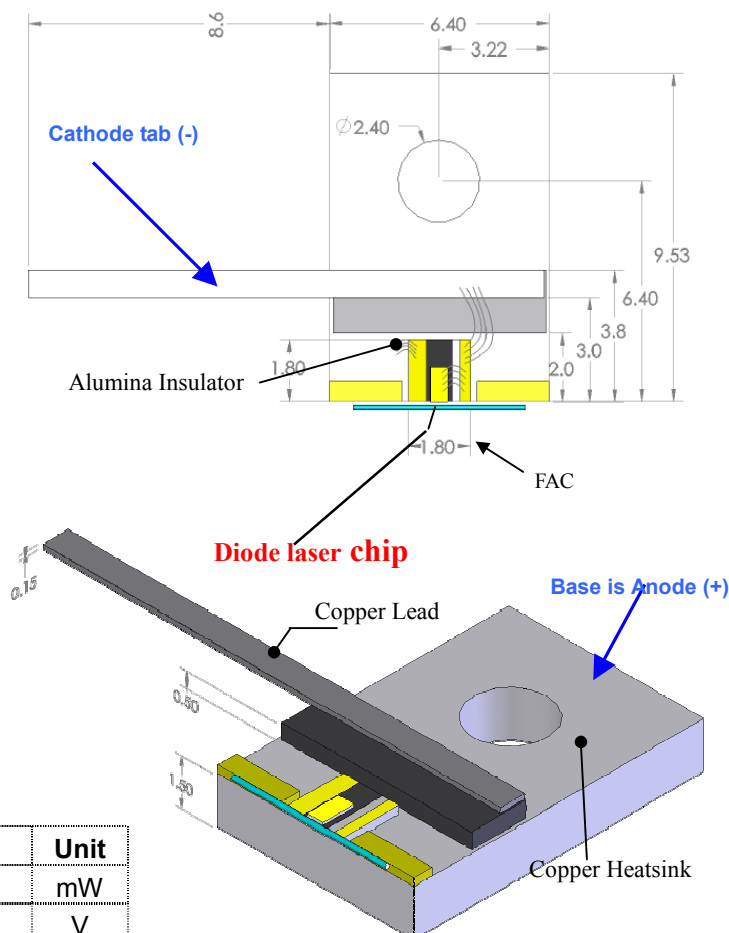
★635nm 0.5W 30 °C CT-Mount PKG with Fast Axis Collimation lens

•Features

1. High power
2. High brightness
3. Long lifetime (AuSn eutectic process)
4. Narrow spectral line-width
5. High polarization purity
6. Small aspect ratio

•Applications

1. Laser display
2. PDT
3. Biochemistry
4. Military
5. Solid-state laser pumping
6. Material processing
7. Medical/Life and health sciences
8. Illumination



※ Dimensions are in mm.

•Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_O	CW	600	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Case temperature	T_C	-	-10~+30	°C
Storage temperature	T_S	-	-40~+85	°C

•Electrical and optical characteristics ($T_c=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	λ	630	636	640	nm	$P_o=500\text{mW}$
Wavelength Temperature Coefficient			0.25	0.3	nm/°C	$P_o=500\text{mW}$
Emitter size		-	50	-	um	
Polarization			TM			
Threshold current	I_{th}	-	200	300	mA	
Operating current	I_{op}	-	700	1000	mA	$P_o=500\text{mW}$
Operating voltage	V_{op}	-	2.5	3.0	V	$P_o=500\text{mW}$
Differential efficiency	η	-	1.0	-	mW/mA	$P_o=300\text{--}500\text{mW}$
Parallel divergence angle	$\theta_{ }$	-	3.5		deg	$P_o=500\text{mW}$
Perpendicular divergence angle	$\theta_{\perp}$	-	2		deg	
Total conversion efficiency		-	28	-	%	

* For reference only. Contents above are subject to change without notice.

Arima
LASERS