AIGaInP Red Laser Diode

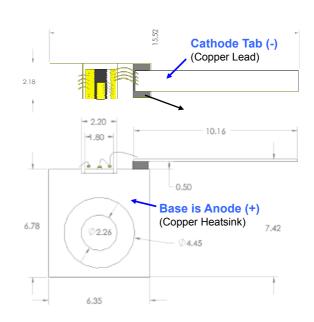
★635nm 0.5W 30°C Č-Mount PKG

Features

1. High power High brightness 3. Long lifetime

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



ADL-63V07CZ 6-2D-LD63-049 Rev.00



Absolute maximum ratings

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

•Electrical and optical characteristics (T_=25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Peak wavelength	λ		635		nm	P₀=500mW
Emitter size		-	50	-	um	
Polarization			ТМ			
Threshold current	I _{th}	-	470		mA	
Operating current	I _{op}	-	1100	1400	mA	P _o =500mW
Operating voltage	V _{op}		2.6	3.0	V	P₀=500mW
Differential efficiency	η	-	0.83	-	mW/mA	P₀=20-200mW
Parallel divergence angle	θ //	-	7	12	deg	P₀=500mW
Perpendicular divergence angle	$ heta$ $_{\perp}$		22		deg	

Precautions

- Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device. Take precautions to avoid electrostatic discharge and/or momentary power spikes. A change in the characteristics of the laser or premature failure may result. Proper heat sinking of the device assures stability and lifetime. Always ensure that maximum operating temperatures are not exceeded. Observing visible or invisible laser beams with the human eye directly, or indirectly, can cause permanent damage. Use a camera to observe the laser. No laser device should be used in any application or situation where life or property is at risk in event of device failure. Specifications are subject to change without notice. Ensure that you have the latest specification by contacting us prior to purchase or use of the product.



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