6-2D-LD63-048 Rev.00

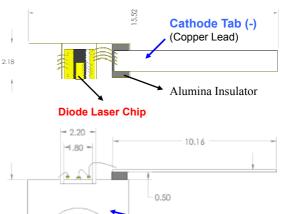
★635nm 0.35W 25 CC-Mount PKG

Features

- 1. High power
- 2 High brightness
- 3. Long lifetime
- 4. Narrow spectral line-width
- 5. High polarization purity

Applications

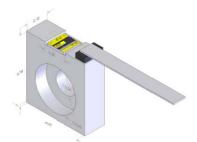
- 1. Laser display
- 2. PDT
- 3. Biochemistry
- 4. Military
- 5. Solid-state laser pumping
- 6. Material processing
- 7. Medical/Life and health sciences
- 8. Illumination





Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit					
Light output power	Po	CW	400	mW					
Reverse voltage (LD)	V_{RL}	-	2	V					
Case temperature	T _C	-	-10~+25	°C					
Storage temperature	Ts	-	-40~+85	°C					



※ Dimensions are in mm.

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Peak wavelength	λ	630	635	640	nm	
Wavelength Temperature Coefficient			0.25	0.3	nm/°C	
Emitter size		-	50	-	um	
Polarization			TM			
Threshold current	I _{th}	-	200	300	mA	
Operating current	I _{op}	-	640	850	mA	P _o =350mW
Operating voltage	V_{op}		2.6	3.0	V	P _o =350mW
Differential efficiency	η	-	0.8	-	mW/mA	P _o =20-200mW
Parallel divergence angle	heta //	-	3.5	12	deg	
Perpendicular divergence angle	$ heta$ $_{\perp}$	30	36	40	deg	
Total conversion efficiency		_	28	-	%	

Precautions

- Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.

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.

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



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