6-2D-LD63-085_Rev.01

638nm 0.5W 25°C TO56 PKG

Features

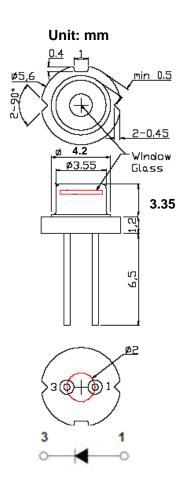
Highly power Higher brightness

Applications

Laser display **PDT Biochemistry** Military Medical/Life and health sciences Illumination

Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	Po	CW	500	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Case temperature	T _C	-	-10~+30	°C
Storage temperature	Ts	-	-40~+85	°C



Electrical and optical characteristics (T_c=25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Peak wavelength	λ	632	638	644	nm	P _o =0.5W	
Polarization			TM				
Threshold current	I _{th}	-	200	300	mA		
Operating current	l _{op}	-	700	900	mA	P _o =0.5W	
Operating voltage	V _{op}	1.9	2.5	3.0	V	P _o =0.5W	
Differential efficiency	η	-	1.0	-	mW/mA	P _o =50-500mW	
Parallel divergence angle	θ _{//}	-	6	-	deg.	P _o =0.5W	
Perpendicular divergence angle	$ heta_{\perp}$	25	36	45	deg.		

^{*} Sufficient heat dissipation is required for CW operation.

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.

ARIMA LASERS CORP.

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