High Power Red Laser Diode

ADL-63T01NY

6-2D-LD63-087_Rev.04

TENTATIVE

635nm 0.7W TO9 (9mm) PKG

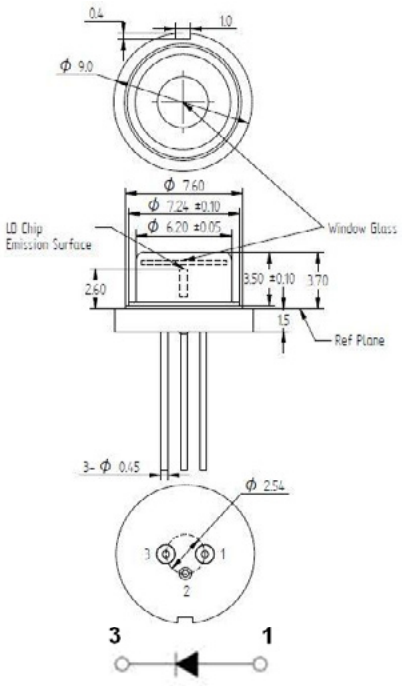
Features

High power
High brightness
Long lifetime

Applications

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

Unit: mm



Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_O	CW	800	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 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	λ	628	638	648	nm	Po=700mW
Emitter size		-	50	-	um	
Polarization			TM			
Threshold current	I_{th}	-	500	600	mA	
Operating current	I_{op}	-	1400	1600	mA	Po=700mW
Operating voltage	V_{op}		2.5	3.0	V	Po=700mW
Differential efficiency	η	-	0.85	-	mW/mA	Po=20-200mW
Parallel divergence angle	$\theta_{//}$		7		deg	Po=700mW
Perpendicular divergence angle	$\theta_{\perp}$	-	22	-	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.

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

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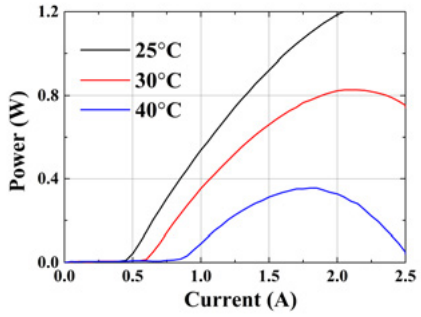

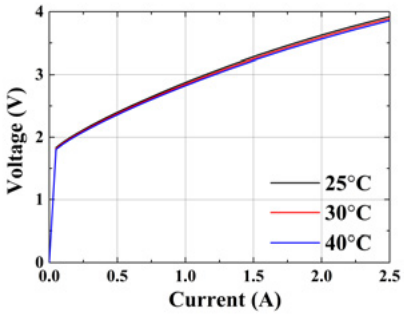

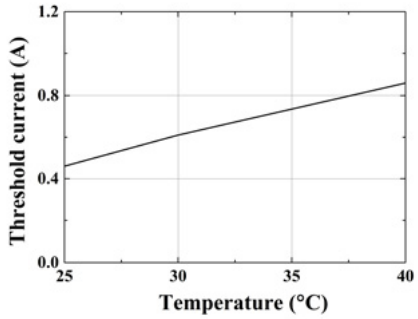

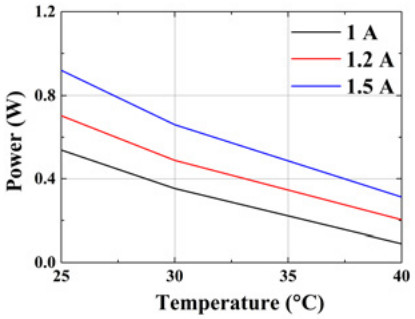

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