

AlGaInP Visible Laser Diode

ADL-63071TL

6-2D-LD63-014_Rev.00

★635nm 7mW 40°C Reliable Operation

•Features

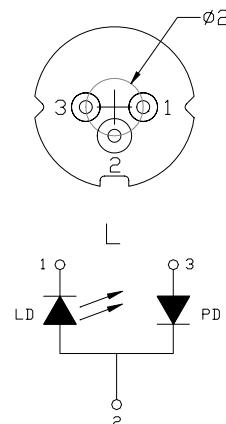
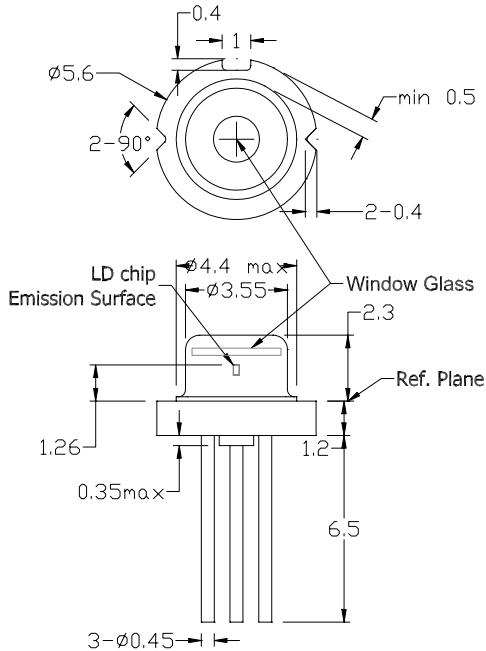
1. High visibility (7mW)
2. High assembly accuracy
3. High reliability

•Applications

1. Industrial laser markers
2. Measuring instruments
3. High visibility LD display

•Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P _O	CW	9	mW
Reverse voltage (LD)	V _{RL}	-	2	V
Reverse voltage (PD)	V _{RD}	-	30	V
Forward current (PD)	I _{FD}	-	10	mA
Case temperature	T _C	-	-10~+40	°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	630	635	640	nm	P _O =7mW
Threshold current	I _{th}	20	30	40	mA	
Operating current	I _{op}	40	50	60	mA	P _O =7mW
Operating voltage	V _{op}	2	2.15	2.5	V	P _O =7mW
Differential efficiency	η	0.25	0.45	0.65	mW/mA	P _O =5-7mW
Monitor current	I _m	0.05	0.15	0.3	mA	P _O =7mW, V _{RD} =5V
Parallel divergence angle	θ	6	7.5	11	deg	
Perpendicular divergence angle	θ _⊥	30	33	40	deg	
Parallel FFP deviation angle	Δθ	-3	0	+3	deg	P _O =7mW
Perpendicular FFP deviation angle	Δθ _⊥	-2	0	+2	deg	
Emission point accuracy	ΔxΔyΔz	-80	0	+80	um	

• 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.

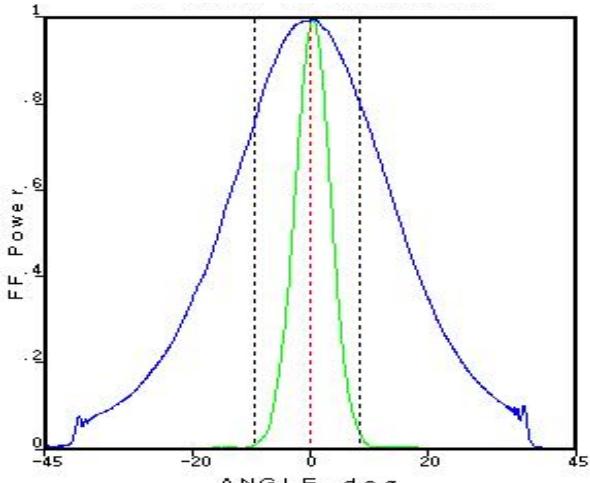
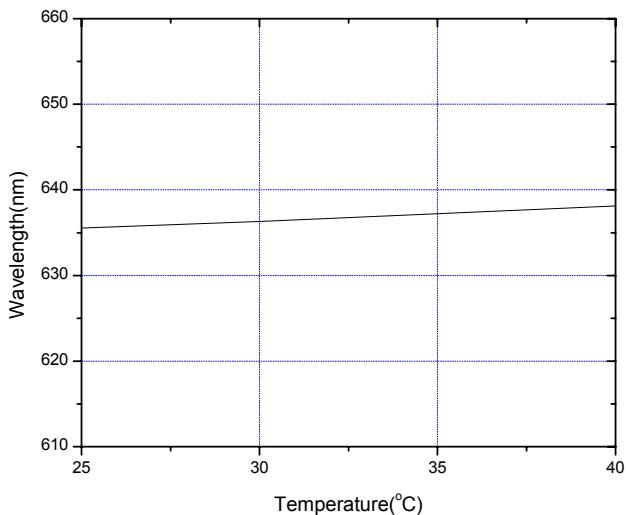
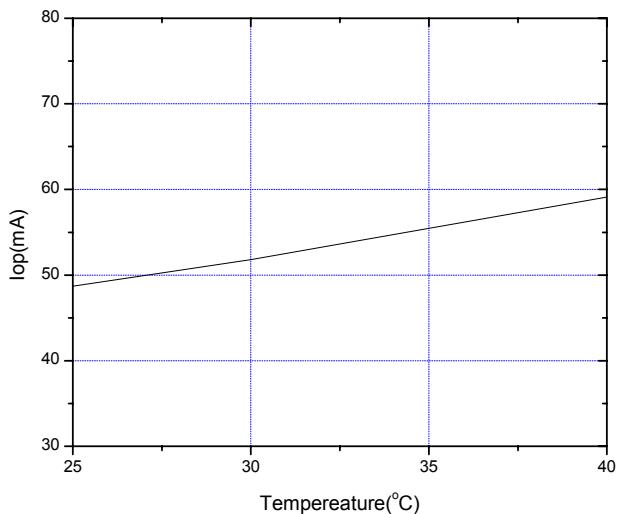
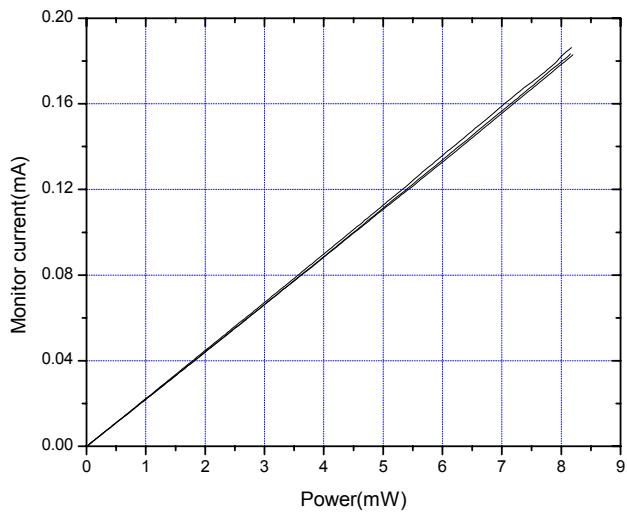
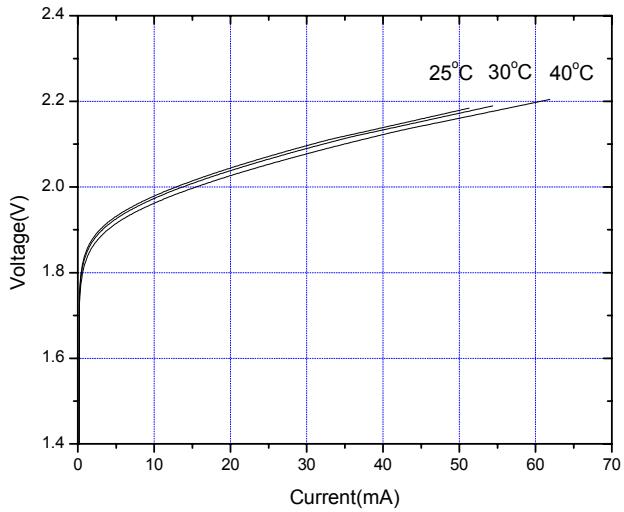
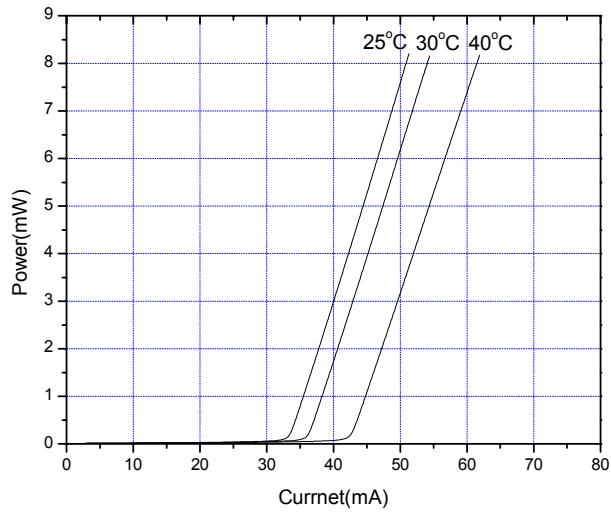
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