

AlGaInP Visible Laser Diode

ADL-63104GL

6-2D-LD63-056_Rev.00

635nm 10mW 50°C Type LD

• Features

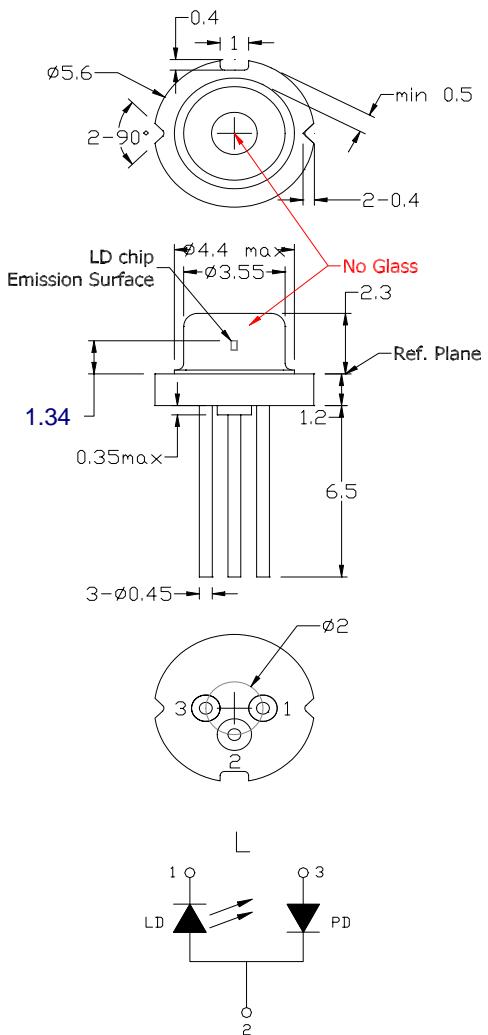
1. High temperature operation
2. High reliability

• 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	12	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~+50	°C
Storage temperature	T _S	-	-40~+85	°C



• Electrical and optical characteristics ($T_c=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength		630	637	640	nm	$P_o=10\text{mW}$
Threshold current	I _{th}	-	35	40	mA	
Operating current	I _{op}	-	55	65	mA	$P_o=10\text{mW}$
Operating voltage	V _{op}	2	2.2	2.5	V	$P_o=10\text{mW}$
Differential efficiency		0.25	0.5	0.85	mW/mA	$P_o=5\text{-}10\text{mW}$
Monitor current	I _m	0.05	0.12	0.5	mA	$P_o=10\text{mW}, V_{RD}=5\text{V}$
Parallel divergence angle	//	6	7.5	11	deg	
Perpendicular divergence angle		30	33	38	deg	
Parallel FFP deviation angle	//	-2	0	+2	deg	$P_o=10\text{mW}$
Perpendicular FFP deviation angle		-2	0	+2	deg	
Emission point accuracy	x y z	-80	0	+80	um	

• Precautions

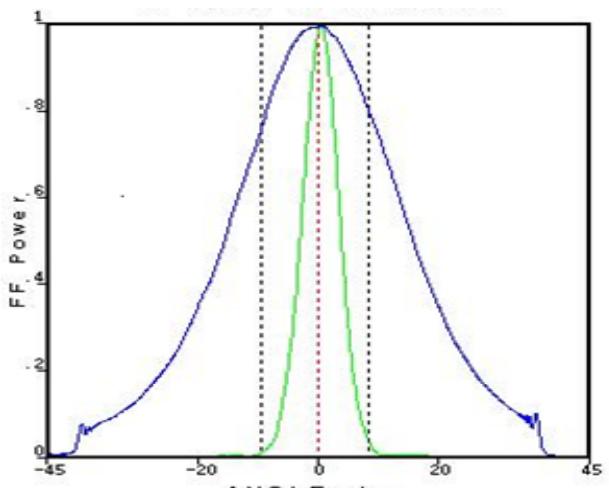
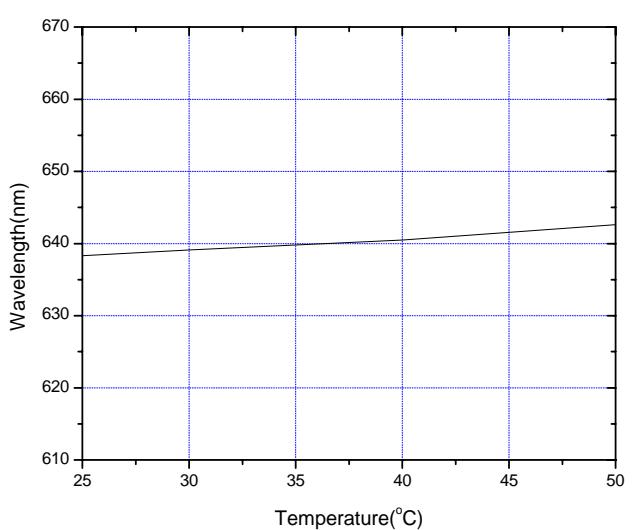
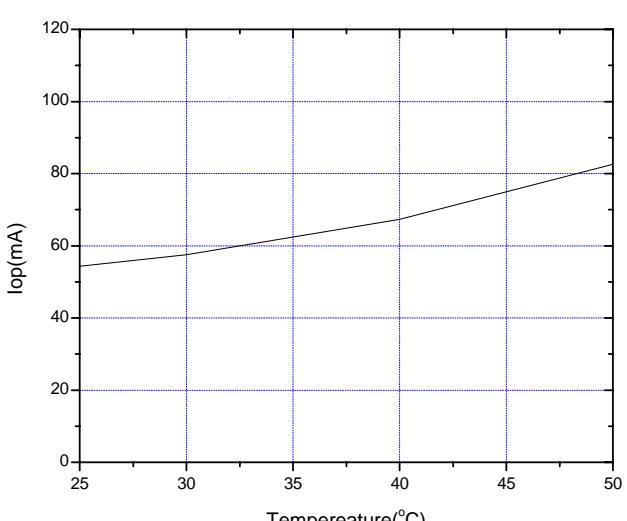
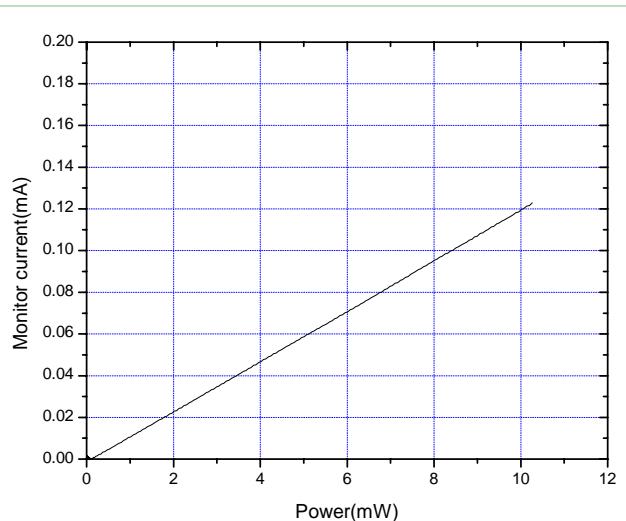
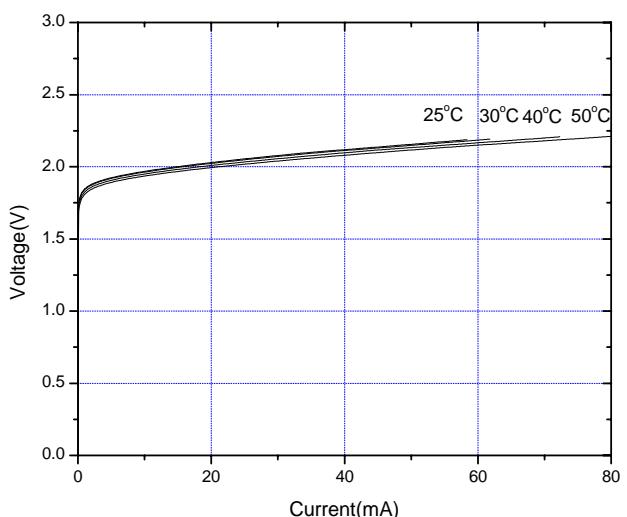
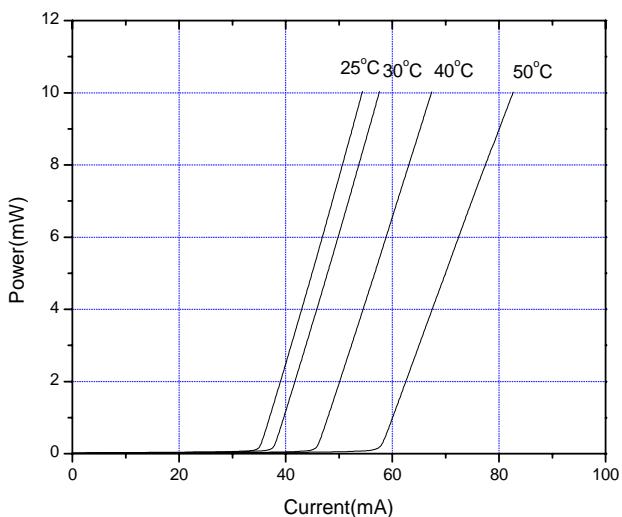
- * Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.
- * Take precautions to avoid electrostatic discharge and/or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- * Proper heat sinking 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..

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

AlGaN_P Visible Laser Diode

ADL-63104GL

6-2D-LD63-056_Rev.00



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

Arima
LASERS