

# AlGaInP Visible Laser Diode

## ADL-66302TL

6-2D-LD66-003\_Rev.00

★660nm 30mW 60°C

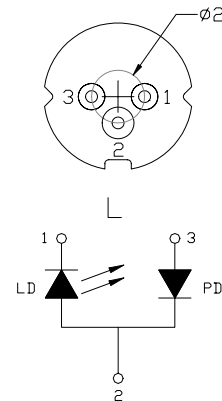
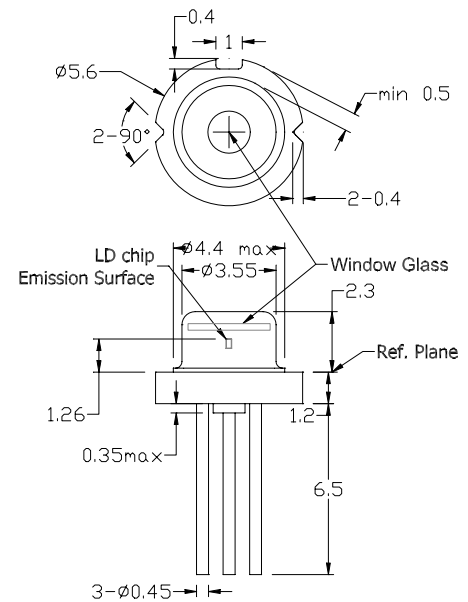
**Reliable High Power Operation**

### • Features

1. Low operating current
2. High efficiency
3. High precision package
4. High power operation

### • Applications

1. Laser pointers
2. Industrial laser markers / measuring instruments
3. High visibility applications



### • Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	$P_O$	CW	32	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~+60	°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	$\lambda$	650	658	665	nm	
Threshold current	$I_{th}$	-	45	60	mA	$P_o=30\text{mW}$
Operating current	$I_{op}$	-	70	90	mA	
Operating voltage	$V_{op}$	2.0	2.5	3.0	V	
Differential efficiency	$\eta$	0.7	1.0	1.4	mW/mA	$P_o=25\text{-}30\text{mW}$
Monitor current-TU	$I_m$	0.05	0.15	0.30	mA	$P_o=30\text{mW}, V_{RD}=5\text{V}$
Parallel divergence angle	$\theta_{  }$	6.0	7.5	12	deg	
Perpendicular divergence angle	$\theta_{\perp}$	14	17	22	deg	
Parallel FFP deviation angle	$\Delta\theta_{  }$	-3	0	+3	deg	$P_o=30\text{mW}$
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-3	0	+3	deg	
Emission point accuracy	$\Delta x \Delta y \Delta z$	-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.

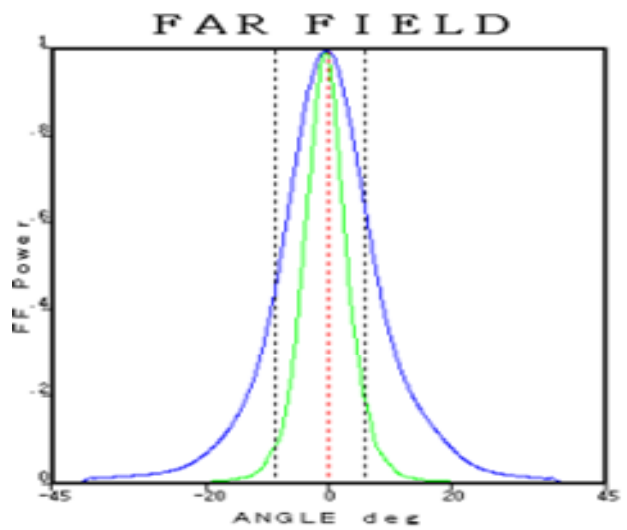
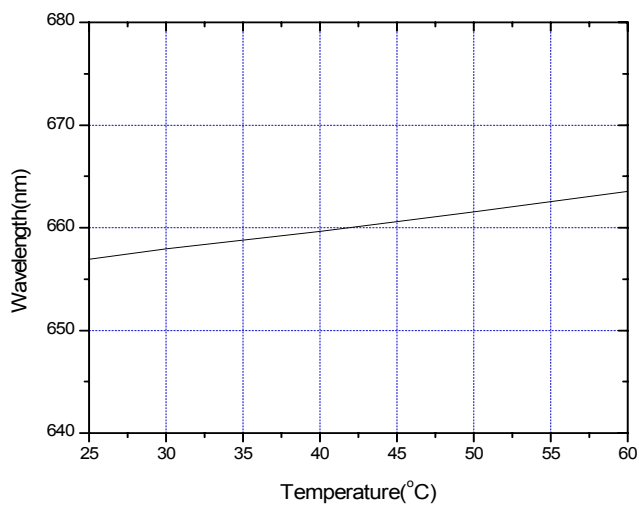
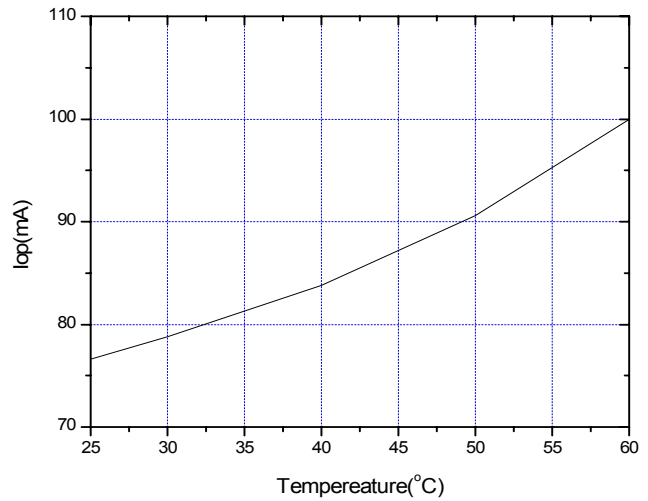
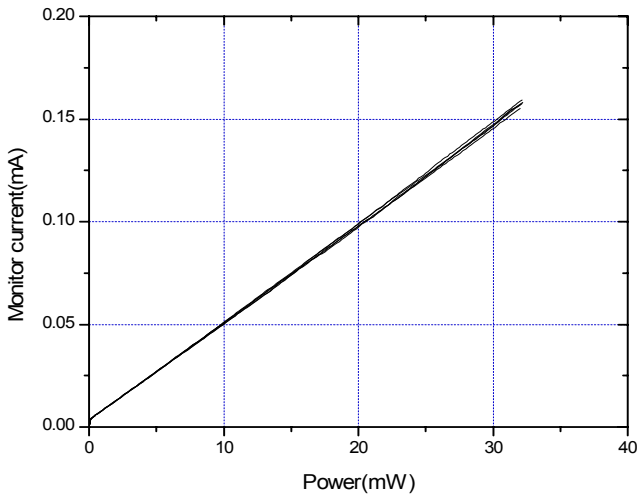
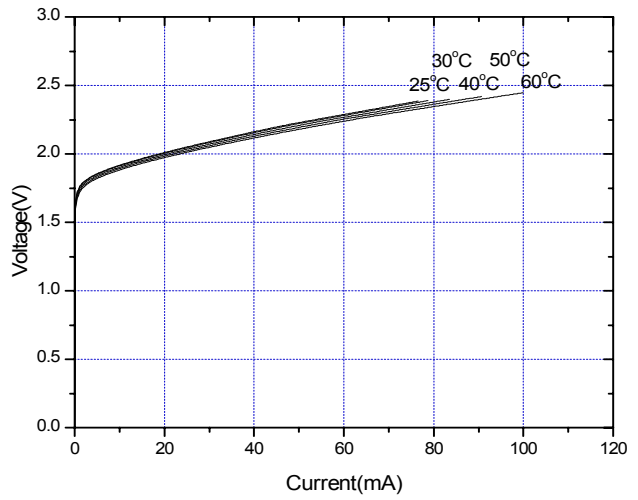
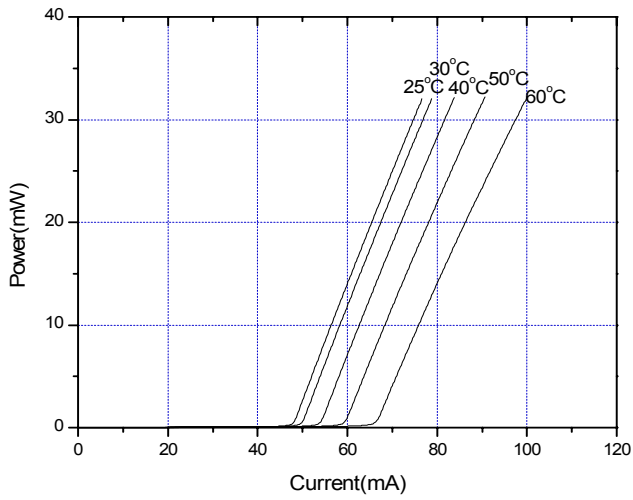
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**Arima**  
LASERS

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