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AlGaInP Visible Laser Diode

ADL-63054TL

LASER
COMPONENTS

DATE : 2005/10/18 Ver 1.0

★635nm 5mW 50°C Reliable Operation

•Features

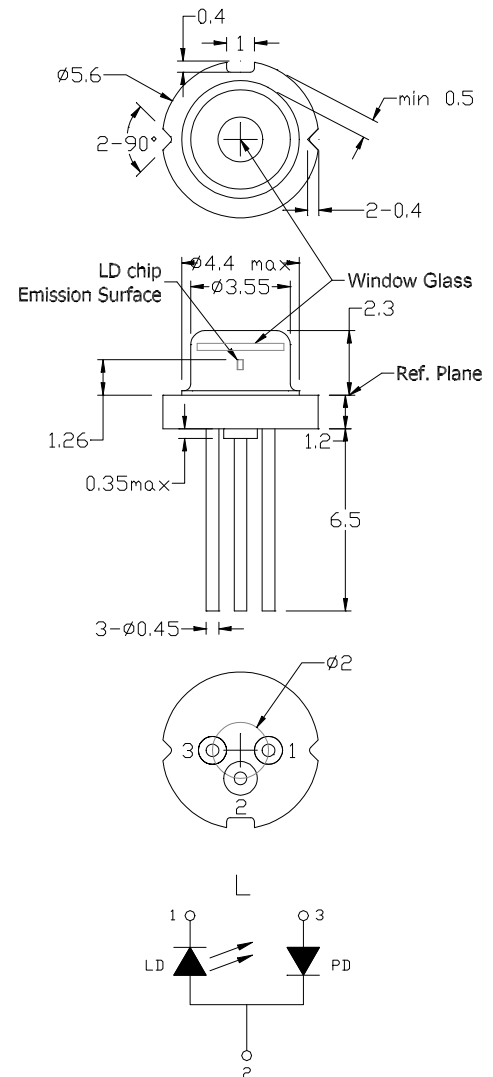
1. High assembly accuracy
2. High monitor current
3. High temperature operation

•Applications

1. High precision measuring instruments
2. High precision industrial laser markers
3. Survey and engineering instruments

•Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_O	CW	7	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 ($T_c=25^\circ\text{C}$)

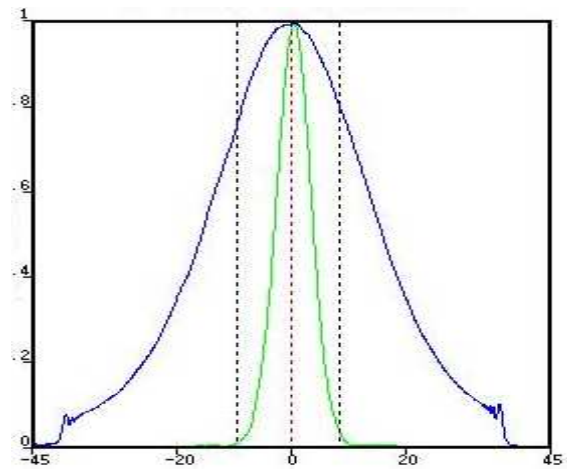
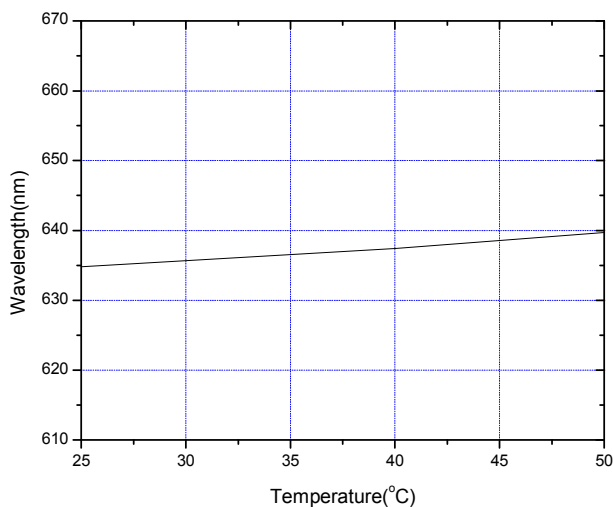
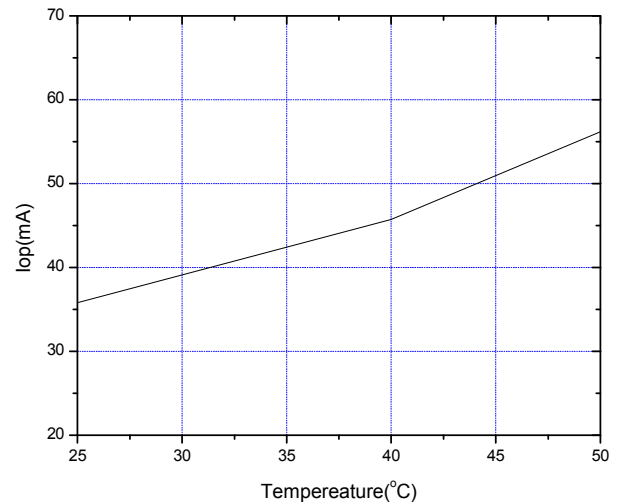
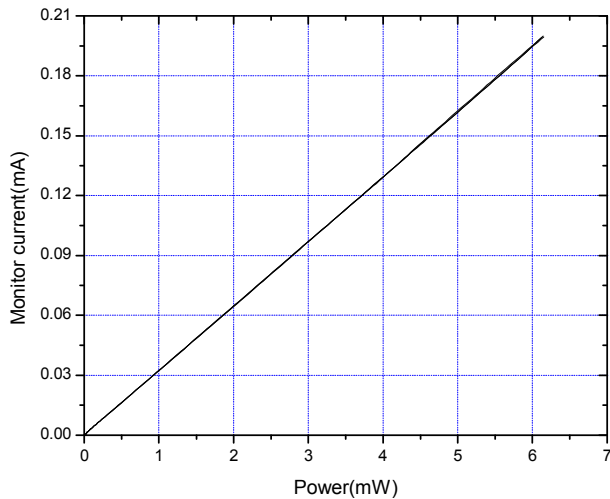
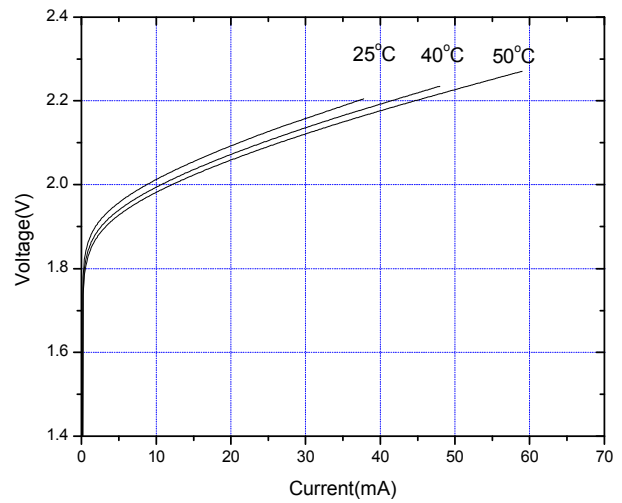
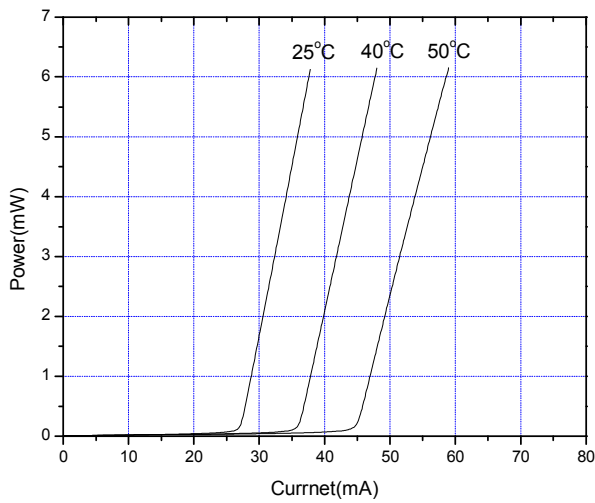
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	λ	630	635	640	nm	$P_o=5\text{mW}$
Threshold current	I_{th}	-	24	30	mA	
Operating current	I_{op}	-	33	40	mA	$P_o=5\text{mW}$
Operating voltage	V_{op}	-	2.2	2.5	V	$P_o=5\text{mW}$
Differential efficiency	η	0.4	0.6	0.8	mW/mA	$P_o=3\sim5\text{mW}$
Monitor current	I_m	0.1	0.15	0.3	mA	$P_o=5\text{mW}$, $V_{RD}=5\text{V}$
Parallel divergence angle	$\theta_{ }$	6	7.5	11	deg	
Perpendicular divergence angle	$\theta_{\perp}$	30	33	40	deg	
Parallel FFP deviation angle	$\Delta\theta_{ }$	-2	0	+2	deg	$P_o=5\text{mW}$
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-2	0	+2	deg	
Emission point accuracy	$\Delta x \Delta y \Delta z$	-60	0	+60	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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