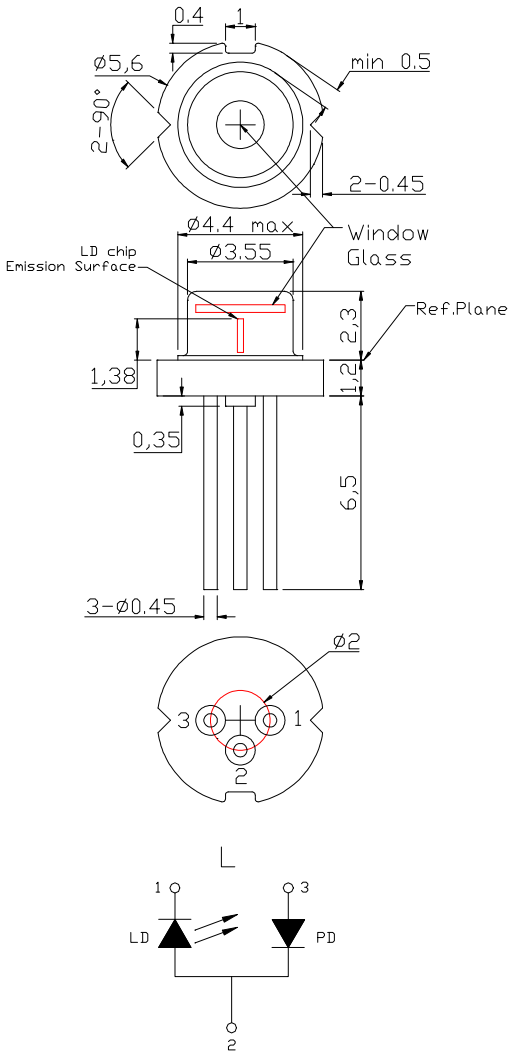
ADL-63153TL

AlGaInP Visible Laser Diode

DATE：2008/03/28 Ver 2.0

★635nm 15mW 50°C Reliable Operation



- **Features**
  1. High visibility
  2. Higher Power
  3. Small perpendicular divergence angle

- **Applications**
  1. Industrial laser markers
  2. Survey and engineering instruments
  3. High visibility LD display

- **Absolute maximum ratings**

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_O	CW	17	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 °C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	λ	630	636	640	nm	P_o=15mW
Threshold current	I_{th}	-	33	40	mA	
Operating current	I_{op}	-	66	80	mA	P_o=15mW
Operating voltage	V_{op}	-	2.3	2.6	V	P_o=15mW
Differential efficiency	η	0.3	0.45	0.7	mW/mA	P_o=10-15mW
Monitor current	I_m	0.1	0.2	0.4	mA	P_o=15mW, V_{RD}=5V
Parallel divergence angle	$\theta_{//}$	6.0	7.5	10	deg	
Perpendicular divergence angle	$\theta_{\perp}$	30	33	38	deg	
Parallel FFP deviation angle	$\Delta\theta_{//}$	-2	0	+2	deg	P_o=15mW
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-2	0	+2	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.

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

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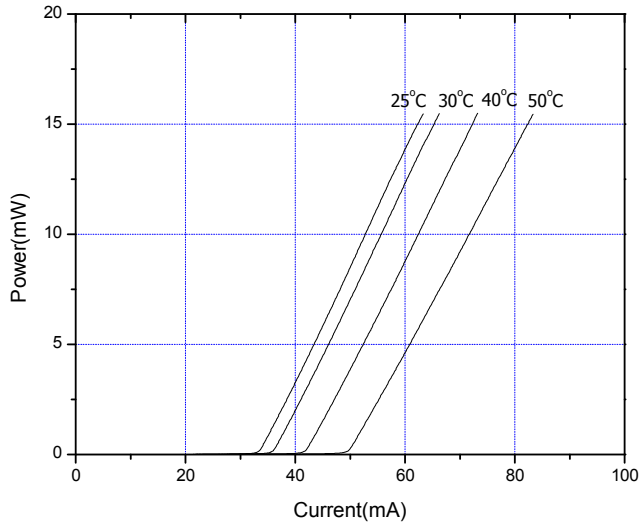

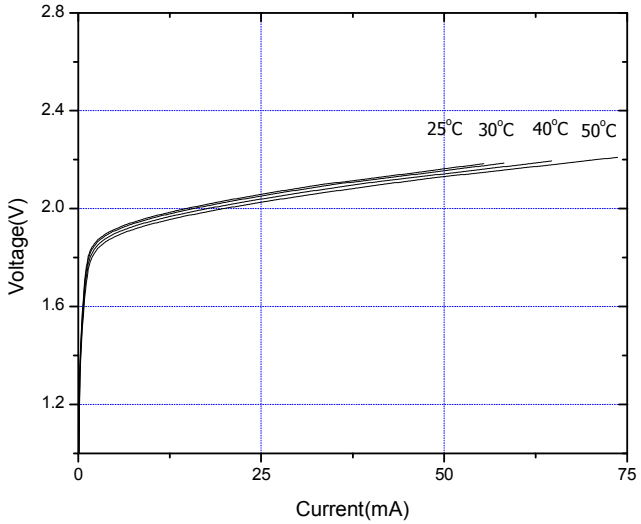

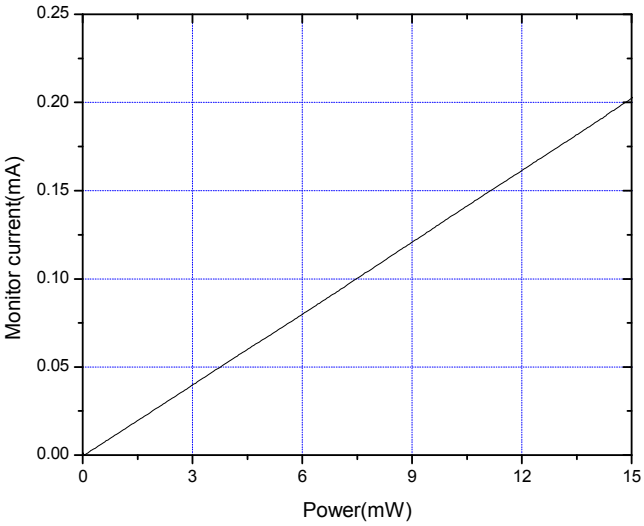

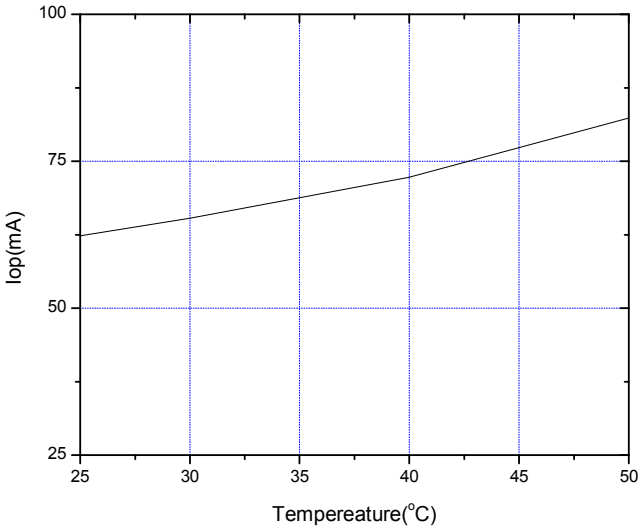

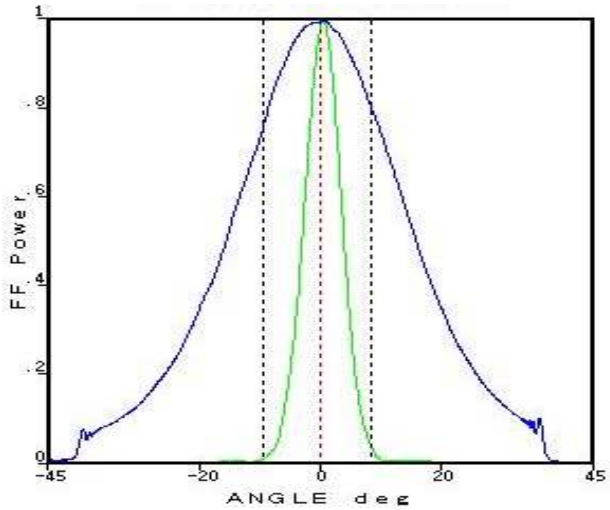

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