

AlGaInP Visible Laser Diode

ADL-65075TU-1

6-2D-LD65-013_Rev.00

★650nm 7mW 70 °C Reliable Operation!

•Features

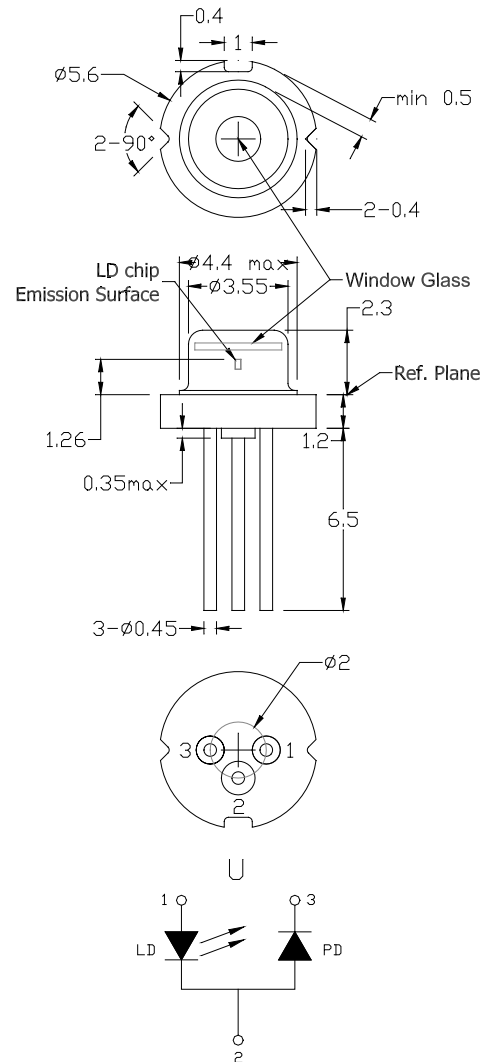
1. Excellent far field pattern
2. Higher power
3. High accuracy
4. I_m : 0.1~0.2mA

•Applications

1. Laser pointer
2. Laser leveler
3. Bar code scanner

•Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P _O	CW	10	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	-	-20~+70	°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	645	655	660	nm	P _o =7mW
Threshold current	I _{th}	-	18	25	mA	
Operating current	I _{op}	-	26	30	mA	P _o =7mW
Operating voltage	V _{op}	-	2.2	2.5	V	P _o =7mW
Differential efficiency	η	0.7	1.0	1.2	mW/mA	P _o =3-5mW
Monitor current	I _m	0.1	0.13	0.2	mA	P _o =7mW, V _{RD} =5V
Parallel divergence angle	$\theta_{ }$	6	9	12	deg	P _o =7mW
Perpendicular divergence angle	θ_{\perp}	25	28	32	deg	
Parallel FFP deviation angle	$\Delta\theta_{ }$	-2	0	2	deg	
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.

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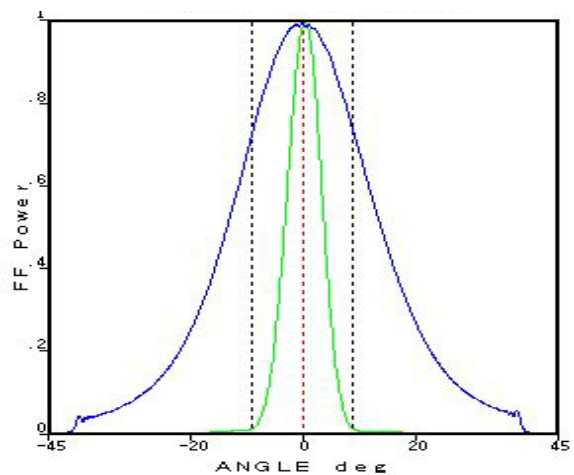
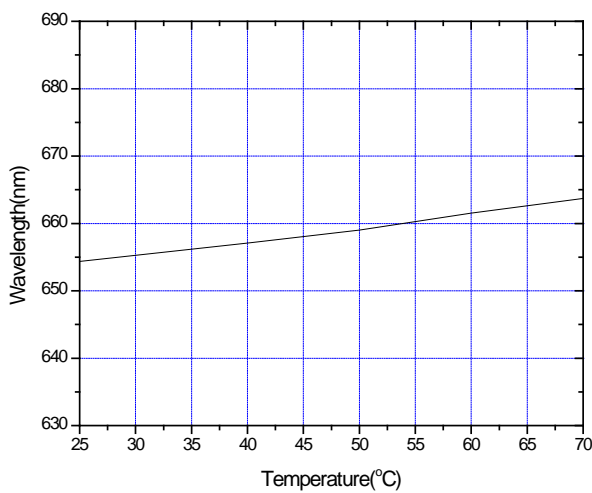
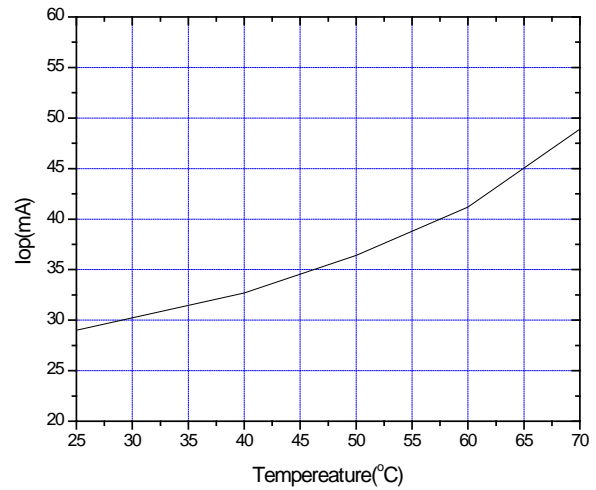
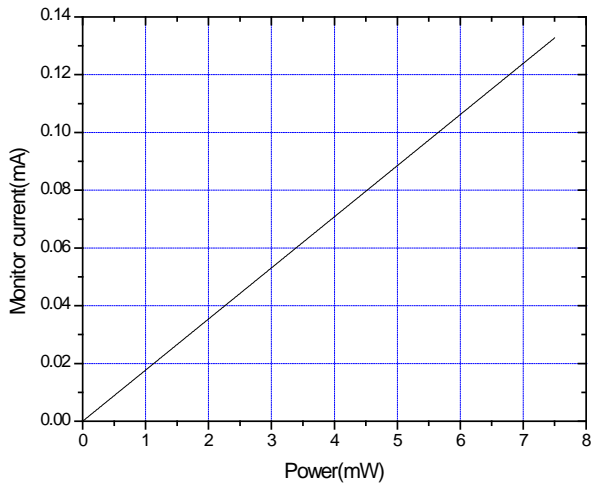
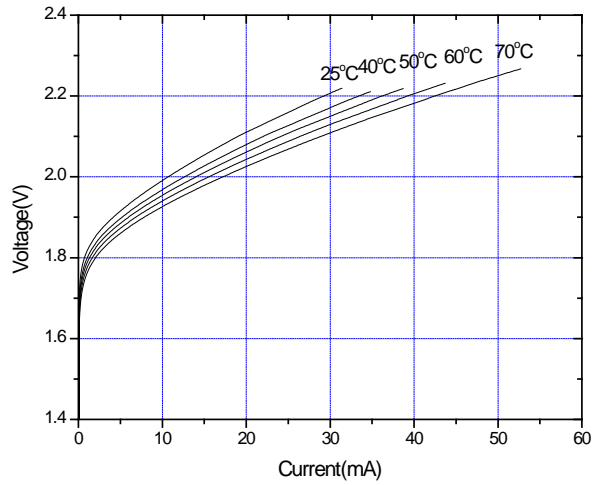
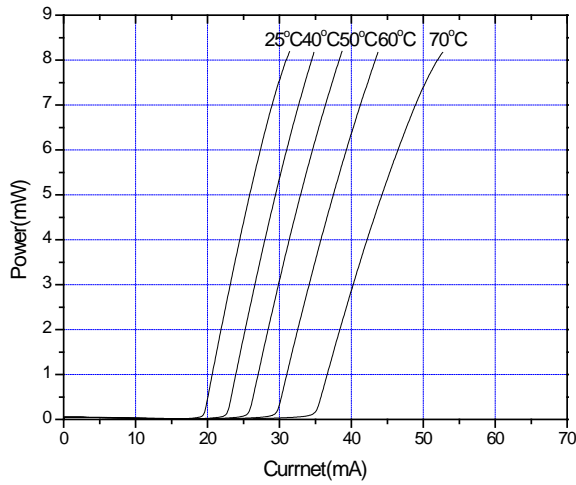
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