

AlGaInP Visible Laser Diode

ADL-66201SU

6-2D-LD66-024_Rev.00

660nm 20mW 60°C Reliable Operation

Features

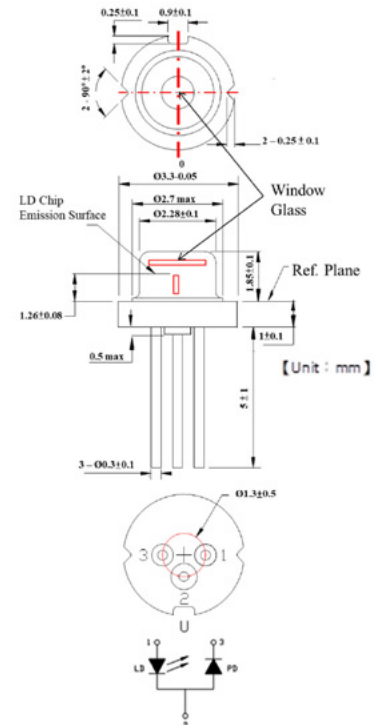
1. Small Package: $\Phi 3.3\text{mm}$
2. High power operation
3. High efficiency

Applications

1. Industry : Laser level, illumination, meter, scanner, detector
2. Consumer : Point light, sweeper, game lighting
3. Health : Special wavelength light source

Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_o	CW	22	mW
Reverse voltage (LD)	V_{RL}	-	2	V
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	λ	650	658	665	nm	$P_o=20\text{ mW}$
Threshold current	I_{th}	-	50	60	mA	
Operating current	I_{op}	-	75	90	mA	
Operating voltage	V_{op}	2.0	2.2	2.6	V	
Differential efficiency	η	0.5	0.8	1.2	mW/mA	$P_o=15\text{-}20\text{ mW}$
Monitor current	I_m	0.05	0.12	0.5	mA	$P_o=20\text{mW}$
Parallel divergence angle	$\theta_{ }$	6	8	10	deg.	$P_o=20\text{ mW}$
Perpendicular divergence angle	$\theta_{\perp}$	14	18	22	deg.	
Parallel FFP deviation angle	$\Delta\theta_{ }$	-3	0	+3	deg.	
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-3	0	+3	deg.	
Emission point accuracy	$\Delta x\Delta y\Delta z$	-80	0	+80	μm	

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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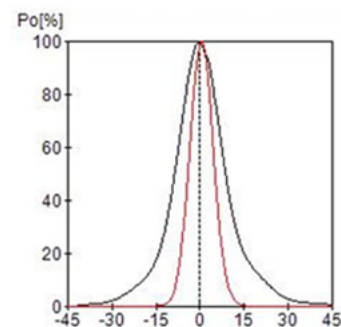
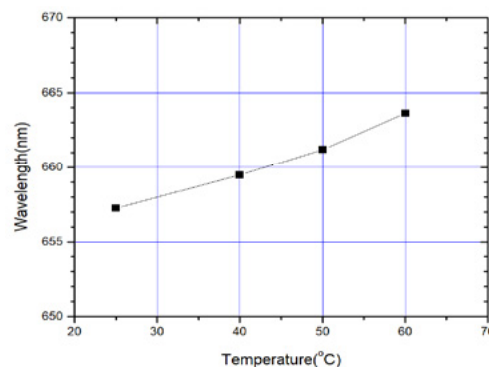
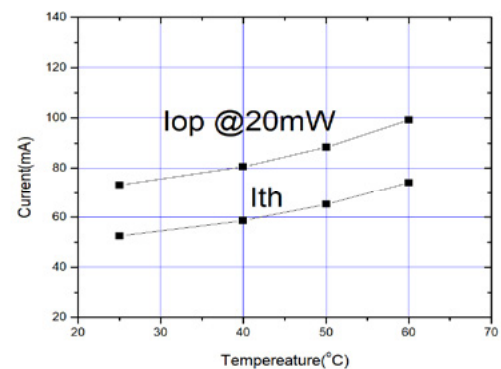
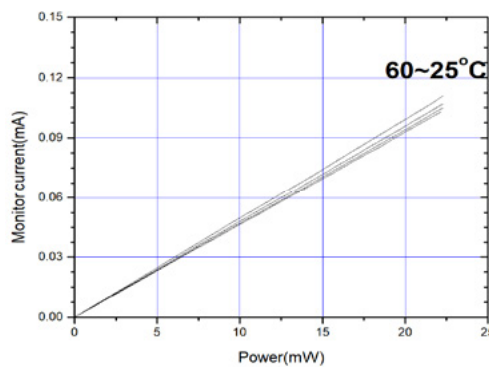
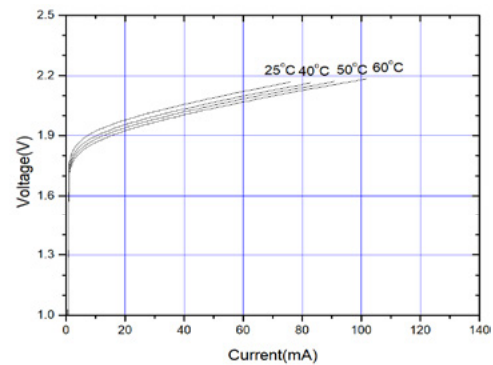
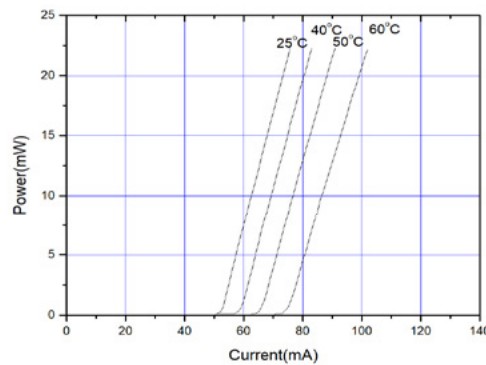


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