

AlGaInP | Visible Laser Diode

ADL-65104XU

650nm 10mW

Features

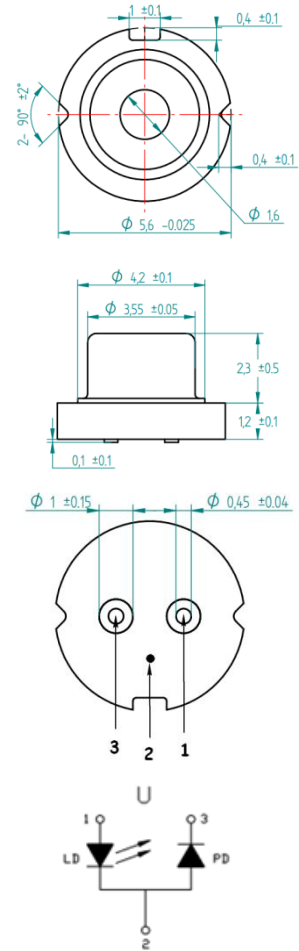
- Output Power:10mW
- TE mode
- Single Transverse Mode
- Stable reliability
- High temperature operation

Applications

- Industry: laser level, illumination, meter, scanner, detector
- Consumer: point light, sweeper, game lighting
- Health: special wavelength light source.

Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_O	CW	12	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Case temperature	T_C	-	-10~+70	°C
Storage temperature	T_S	-	-40~+85	°C



Electrical and optical characteristics ($T_c=25\text{ }^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	λ	-	655	-	nm	$P_o=10\text{mW}$
Threshold current	I_{th}	-	15	-	mA	
Operating current	I_{op}	-	27	-	mA	
Operating voltage	V_{op}	-	2.1	-	V	
Differential efficiency	η	-	0.9	-	mW/mA	$P_o=7\text{-}10\text{mW}$
Monitor current	I_m	-	0.3	-	mA	$P_o=10\text{mW}, V_{RD}=5\text{V}$
Parallel divergence angle	$\theta_{//}$		8		deg	$P_o=10\text{mW}$
Perpendicular divergence angle	θ_{\perp}		31		deg	
Parallel FFP deviation angle	$\Delta\theta_{//}$	-2	0	+2	deg	
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-2	0	+2	deg	

* Sufficient heat dissipation is required for CW operation.

● 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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