

Red Laser Diode

ADL-65104ZU

650nm 10mW

Features

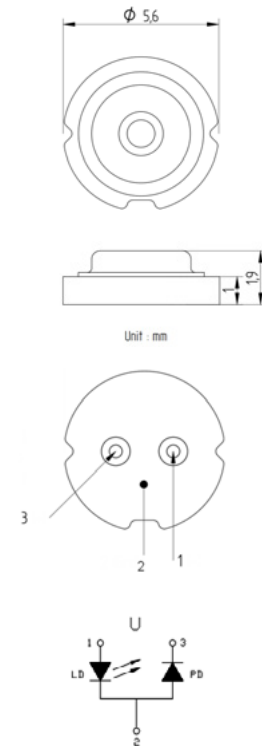
Output Power: 10mW
TE mode
Single Transverse Mode
Stable reliability
High temperature operation

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	11	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 ($T_c=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	λ	-	654	-	nm	$P_o=10\text{mW}$
Threshold current	I_{th}	-	20	-	mA	
Operating current	I_{op}	-	31	-	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	-	0.05	-	mA	$P_o=10\text{mW}, V_{RD}=5\text{V}$

* 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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Arima
LASERS