

650nm 10mW

Features

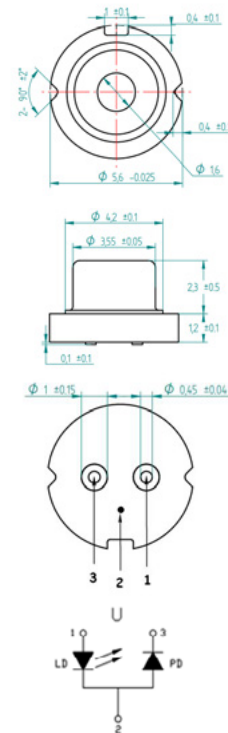
Output Power:10mW
TE mode
Single Transverse Mode
Stable reliability
High temperature operation

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	λ	-	655	-	nm	P _o =10mW
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 =7-10mW
Monitor current	I _m	-	0.3	-	mA	P _o =10mW,VRD=5V
Parallel divergence angle	$\theta//$		8		deg	P _o =10mW
Perpendicular divergence angle	$\theta \perp$		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.
 - Protection of the eyes and the skin from the laser beam is essential. 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