

660nm 50mW 60°C Reliable Operation

Features

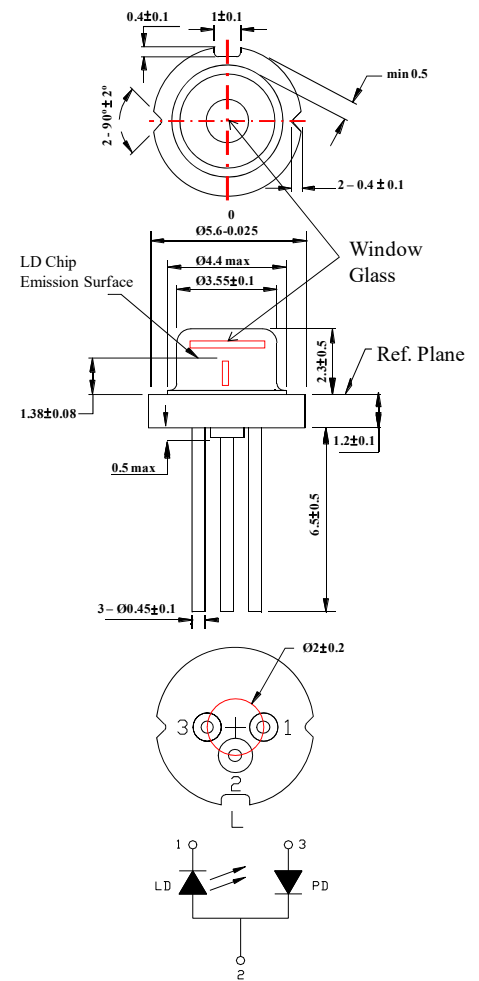
1. Highly reliable
2. High power operation
3. High efficiency

Applications

1. High power Laser modules
2. Industrial laser markers/measuring instruments
3. Medical application

Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_O	CW	55	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	653	660	667	nm	$P_o=50\text{ mW}$
Threshold current	I_{th}	-	45	60	mA	
Operating current	I_{op}	-	95	120	mA	
Operating voltage	V_{op}	2.0	2.5	3.0	V	
Differential efficiency	η	0.7	1.0	1.4	mW/mA	$P_o=45\text{-}50\text{mW}$
Monitor current	I_m	0.05	0.2	0.5	mA	$P_o=50\text{mW}$
Parallel divergence angle	$\theta_{ }$	6	9	13	deg.	$P_o=50\text{ mW}$
Perpendicular divergence angle	θ_{\perp}	13	17	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	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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