AIGaInP Visible Laser Diode

ADL-66506TL

★660nm 50mW 60°C

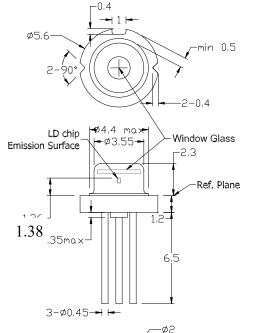
Reliable High Power Operation

Features

- 1. Highly reliable / COD free
- 2. Higher power
- 3. High efficiency

Applications

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



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Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	Po	CW	52	mW
Reverse voltage (LD)	V _{RL}	-	2	V
Reverse voltage (PD)	V _{RD}	-	30	V
Forward current (PD)	I _{FD}	-	10	mA
Case temperature	Tc	-	-10~+60	°C
Storage temperature	Ts	-	-40~+85	°C

•Electrical and optical characteristics (T_c=25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Peak wavelength	λ	653	660	667	nm		
Threshold current	l _{th}	-	45	60	mA	P₀=50mW CW Kink free	
Operating current	I _{op}	-	90	120	mA		
Operating voltage	V _{op}	2.0	2.5	3.0	V		
Differential efficiency	η	0.7	1.0	1.4	mW/mA	P₀=45-50mW	
Monitor current	۱ _m	0.05	0.2	0.5	mA	P _o =50mW, V _{RD} =5V	
Parallel divergence angle	θ//	6	9	13	deg		
Perpendicular divergence angle	θ⊥	13	17	22	deg	P₀=50mW	
Parallel FFP deviation angle	Δθ//	-3	0	+3	deg		
Perpendicular FFP deviation angle	Δθ⊥	-3	0	+3	deg		
Emission point accuracy	∆x∆y∆z	-80	0	+80	um		
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Precautions

Tecautions 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

* For reference only. Contents above are subject to change without notice.

