ADL-66302TU

DATE: 2006/02/23 Ver 1.0

★660nm 30mW 50°C Reliable High Power Operation

Features

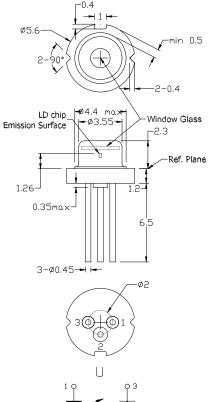
- 1. Low operating current
- 2. High efficiency
- 3. High precision package
- 4. High power operation

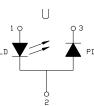
Applications

- 1. Laser pointers
- 2. Industrial laser markers / measuring instruments
- 3. High visibility applications



Parameter	Symbol	Condition	Rating	Unit
Light output power	Po	CW	35	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Reverse voltage (PD)	V_{RD}	-	30	V
Forward current (PD)	I_{FD}	-	10	mA
Case temperature	T _C	-	-10~+50	°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	655	659	665	nm	P _o =30mW
Threshold current	I _{th}	-	40	45	mA	Po:1-5mW
Operating current	l _{op}	-	68	80	mA	P _o =30mW
Operating voltage	V _{op}	-	2.5	2.8	V	P _o =30mW
Differential efficiency	η	0.7	1.0	1.3	mW/mA	P _o =28-30mW
Monitor current	l _m	-	0.09	-	mA	P _o =30mW, V _{RD} =5V
Parallel divergence angle	heta #	7	9	12	deg	
Perpendicular divergence angle	$ heta_{\scriptscriptstyle \perp}$	13	16	20	deg	
Parallel FFP deviation angle	$\Delta heta$ //	-	-	±3	deg	P _o =30mW
Perpendicular FFP deviation angle	$\Delta heta_{\scriptscriptstyle \perp}$	-	-	±3	deg	
Emission point accuracy	$\Delta \mathbf{x} \Delta \mathbf{y} \Delta \mathbf{z}$	-	-	±80	um	

- 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.