


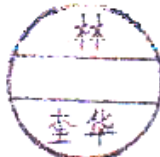
APPROVAL SHEET

(承认书)

ITEM: ADL-65052TL-3

版本 (Version) : ADL-65052TL-3 V1.0

日期 (Date) : 2007-06-08

Prepared By (制订)	Confirmed By (确认)	Approved By (承认)
		
Date (日期)	Date (日期)	Date (日期)

RED LASER DIODE

ADL-65052TL-3

ADL-65052TL-3 V1.0

650nm/5mW 50°C Reliable Operation Design

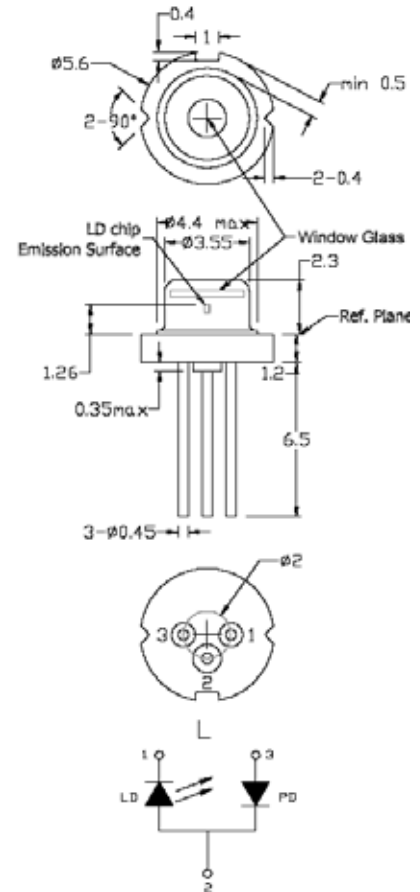
Dimension

◆ Features

- Low operating current
- High efficiency
- FFP single lateral mode
- Sort Im by grade

◆ Applications

- Laser pointers
- Industrial laser markers / measuring instruments
- Bar code readers



◆ Absolute maximum ratings

(TC=25°C)

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_0	CW	7	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Case Temperature	T_C	-	-10~+50	°C
Storage temperature	T_S	-	-40~+85	°C

***Reverse voltage (PD) = 30V, Forward current (PD) = 10mA

◆ Electrical and optical characteristics

(TC=25°C)

Parameter	Symbol	Min	Typ.	Max.	Unit	Condition (CW)
Peak wavelength	λ	645	655	660	nm	$P_0 = 5mW$
Threshold current	I_{th}	-	15	20	mA	
Operating current	I_{op}	-	20	22	mA	
Operating voltage	V_{op}	-	2.2	2.5	V	
Differential efficiency		0.5	1	1.4	mW/mA	$P_0 = 3-5mW$
Monitor current	I_m	0.1	0.18	0.4	mA	$P_0 = 5mW, VRD=5V$
Parallel divergence angle		6.0	8.0	12.0	deg	$P_0 = 5mW$
Perpendicular divergence angle		24	27	32	deg	
Parallel FFP deviation angle		-3.0	0.0	+3.0	deg	
Perpendicular FFP deviation angle		-3.0	0.0	+3.0	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 the 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 laser specification by contacting us prior to purchase or use of the product

Notice : A-LASER proposes to operate ADL-65052TL-3 by the external APC circuit.

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