
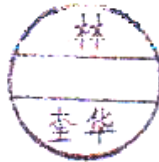


APPROVAL SHEET

(承认书)

ITEM: AD-63052-G-TL

版本 (Verison) : 6-2D-LD63-024_Rev.A0
日期 (Date) : 2018-12-17

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

RED LASER DIODE

AD-63052-G-TL

6-2D-LD63-024_Rev.A0

635nm/5mW 40°C cost effective type

Dimension

◆ Features

- Cost effective
- High visibility

◆ Applications

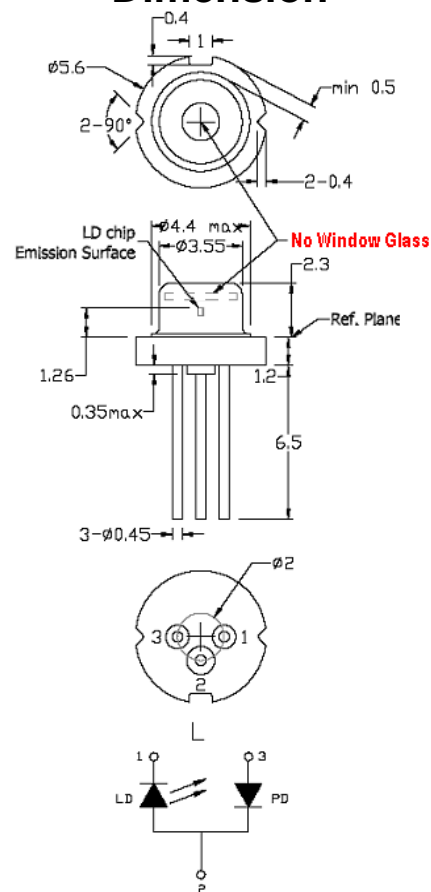
- General purpose red laser light source
- Industrial laser markers / measuring instruments
- Laser pointers / levelers

◆ 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~+40	°C
Storage temperature	T_S	-	-40~+85	°C

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



unit : mm

◆ Electrical and optical characteristics

(TC=25°C)

Parameter	Symbol	Min	Typ.	Max.	Unit	Condition (CW)
Peak wavelength	λ	630	635	640	nm	$P_0 = 5mW$
Threshold current	I_{th}	-	25	30	mA	
Operating current	I_{op}	-	33	40	mA	
Operating voltage	V_{op}	-	2.2	2.5	V	
Differential efficiency	η	0.4	0.6	0.8	mW/mA	$P_0 = 3-5mW$
Monitor current	I_m	0.05	0.15	0.3	mA	$P_0 = 5mW, VRD=5V$
Parallel divergence angle	θ_{\parallel}	6.0	7.5	10.0	deg	$P_0 = 5mW$
Perpendicular divergence angle	θ_{\perp}	30	33	36	deg	
Parallel FFP deviation angle	$\Delta\theta_{\parallel}$	-3.0	0.0	+3.0	deg	
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-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 AD-63052-G-TL by the external APC circuit.

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