





AlGaInP Visible Laser Diode ADL-65074TR

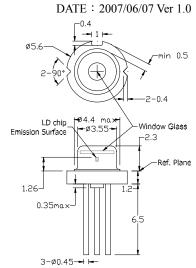
★650nm 7mW 85 °C High Temperature, Reliable Operation!

Features

- 1. High temperature operation
- 2. Higher power
- 3. High reliability

Applications

- 1. Automobile DVD
- 2. Bar code readers
- 3. High reliability laser instrument







Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	Po	CW	10	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~+ 85	°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	645	655	660	nm	P _o =7mW
Threshold current	I _{th}	-	20	25	mA	
Operating current	l _{op}	-	28	35	mA	P _o =7mW
Operating voltage	V _{op}	-	2.1	2.5	V	P _o =7mW
Differential efficiency	η	0.70	0.86	1.1	mW/mA	P _o =3-5mW
Monitor current	l _m	0.1	0.2	0.3	mA	P _o =7mW, V _{RD} =0V
Parallel divergence angle	θ_{\parallel}	7	8.5	10	deg	
Perpendicular divergence angle	$ heta_{\perp}$	27	29	31	deg	
Parallel FFP deviation angle	Δθπ	-2	0	+2	deg	P _o =7mW
Perpendicular FFP deviation angle	$\Delta \theta$ $_{\perp}$	-2	0	+2	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.

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

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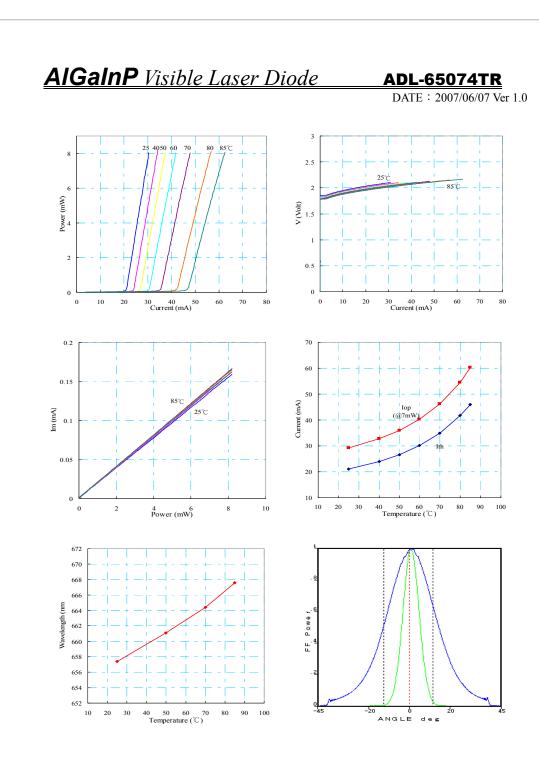
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