

ADL-66302TL



TECHNICAL DATA

Red Laser Diode

Features

- AlGaAIP laser diode
- Peak Wavelength: 658 nmOptical Ouput Power: 30 mW
- Package: 5.6 mm, with Photo Diode



Electrical Connection

P	Bottom View	
LD PD	m-type PIN Function 1 LD Cathode 2 LD Anode, PD Cathode 3 PD Anode	BOTTON VIEW

Absolute Maximum Ratings (T_c =25°C)

Item	Symbol	Value	Unit
Optical Output Power	Po	35	mW
LD Reverse Voltage	V _R (LD)	2	V
PD Reverse Voltage	V _R (PD)	30	V
PD Forward Current	I _{PD}	10	MA
Operating Case Temperature	T _C	-10 +60	°C
Storage Temperature	T _{sta}	-40 +85	°C

Specifications (T_C=25°C)

Item		Symbol	Min.	Тур.	Max.	Unit			
Optical Specifications									
Optical Output Power (CW)		Po	-	30	ı	mW			
Peak Wavelength		λ_{P}	650	658	665	nm			
FWHM Beam Divergence		Θ∥	6.0	7.5	12.0	deg			
FVVHIVI Beam Divergence		ΘΪ	14	17	22	deg			
Emission Point Accuracy	Angle	Δθ∥	-3	-	+3	deg			
		Δθ⊥	-3	-	+3	deg			
Astigmatism		As	-80	-	+80	μm			
Electrical Specifications									
Threshold Current		I _{th}	-	45	60	mA			
Operating Current		I _{op}	-	70	90	mA			
Slope Efficiency		η	0.7	1.0	1.4	W/A			
Operating Voltage		V_{op}	2.0	2.5	3.0	V			
Monitor Current		I _m	0.05	0.15	0.30	mA			

The above specifications are for reference purpose only and subjected to change without prior notice.



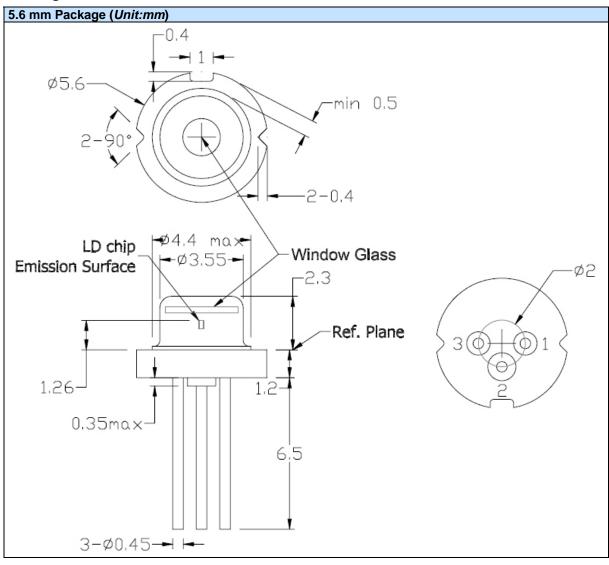
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Package Dimensons





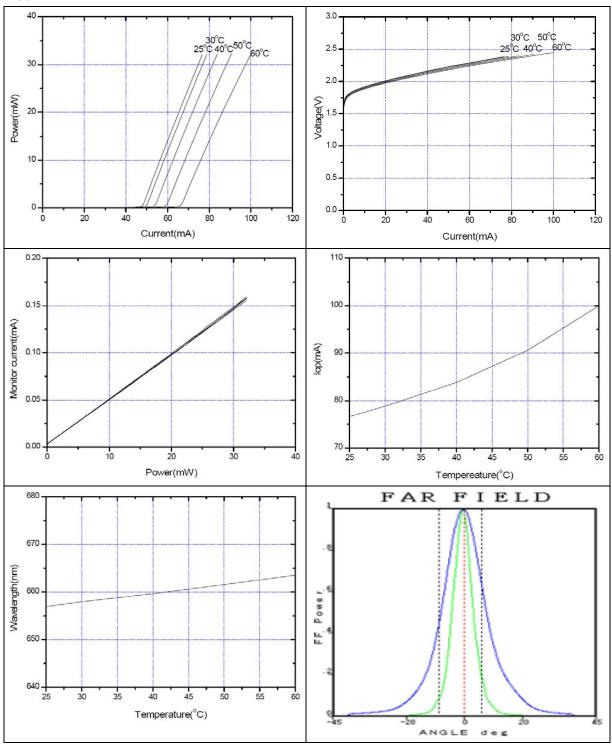
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Typical Performance Curves



Safety of Laser light

Laser Light can damage the human eyes and skin. Do not expose the
eye or skin directly to any laser light and/or through optical lens. When
handling the LDs, wear appropriate safety glasses to prevent laser
light, even any reflections from entering to the eye. Focused laser
beam through optical instruments will increase the chance of eye
hazard.



Cautions

1. Operating methode

- This LD shall change its forward voltage requirement and optical ouput power according to temperature change. Also, the LD will require more operation current to maintain same ouput power as it degrades. In order to maintain output power, use of APC (Automatic Power Control) is recommended. Which use monitor feedback to adjust the operation current.
- Confirm that electrical spike current generated by switching on and off does not exceed the
 maximum operating current level specified herein above as absolute maximum rating. Also,
 employ appropriat countermeasures to reduce chattering and/or overshooting in the circuit.

2. Static Electricity

• Static electricity or electrical surges will reduce and degrade the reliability of the LDs. It is recommended to use a wrist trap or anti-electrostatic glove when handeling the product.

3. Absolute Maximum Rating

Active layer of LDs shall have high current density and generate high electric field during its
operation. In order to prevent excessive damage, the LD must be operated strictly below
absolute maximum rating.

