

Infrared Laser Diode

ADL-94Y01EY-F2

6-2D-LD90-004_Rev.00

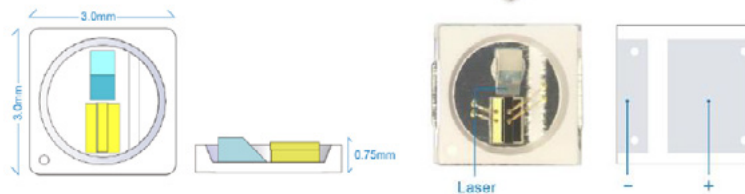
940nm 200mW

Features

High wavelength stability at different temperature
High power conversion efficiency
Open package

Applications

Moving sensor/Gesture
Photoelectric sensors
3D sensing
ToF applications



Absolute Maximum Ratings

Parameter	Symbol	Condition	Rating	Unit
Light Output Power	P _O	CW	220	mW
Reverse Voltage(LD)	V _{RL}	-	2	V
Case Temperature	T _C	-	-10~60	°C
Storage Temperature	T _S	-	-40~85	°C

Electrical and Optical Characteristics(T_c=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	λ	930	940	950	nm	P _o =200mW
Threshold Current	I _{th}		46	65	mA	
Operating Current	I _{op}		300	340	mA	P _o =200mW
Operating Voltage	V _{op}		1.9		V	P _o =200mW
Differential Efficiency	η	0.7	0.75	0.85	mW/mA	P _o =100-200mW
Parallel Divergence Angle	θ	4	7	13	deg.	P _o =200mW
Perpendicular Divergence Angle	θ _⊥	12	19	25	deg.	

- * Sufficient heat dissipation is required for CW operation.
- * The characteristics was tested under cw condition.
- * Divergence angle measurement was based on FWHM

● Precautions

- * Do not operate the device above maximum ratings even short period of time. 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.

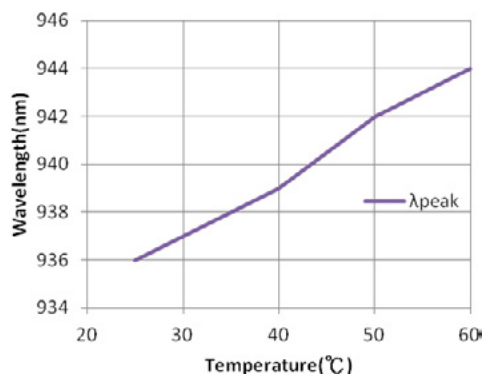
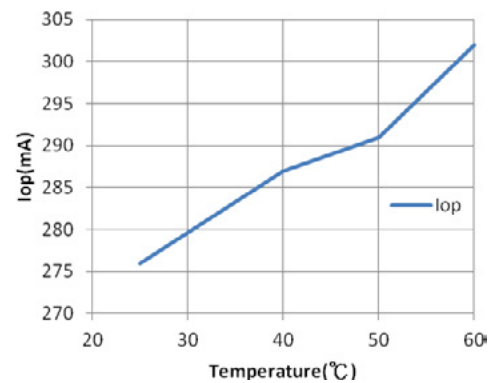
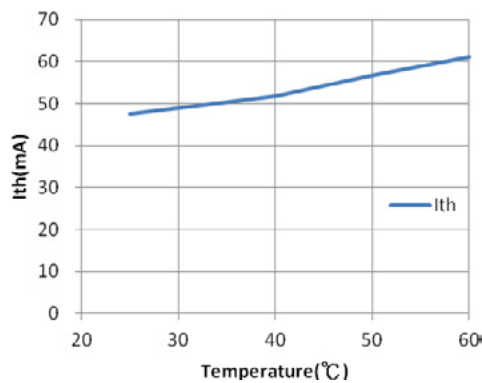
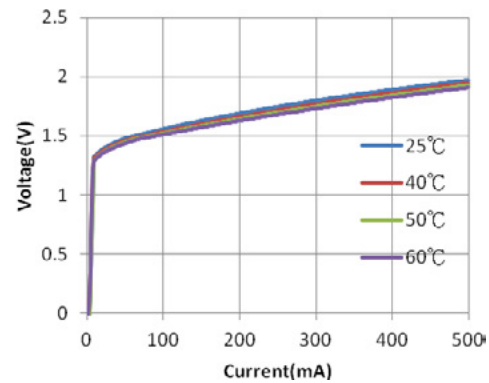
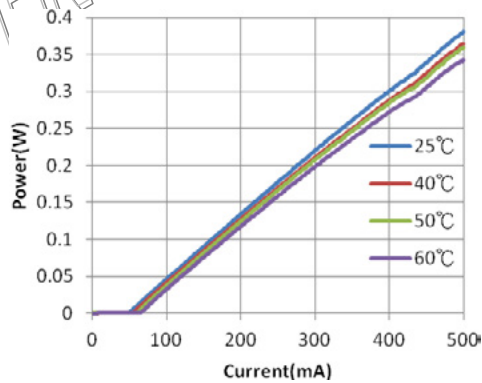
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