

Infrared Laser Diode

ADL-94Y01IY-F1

6-2D-LD90-003_Rev.01

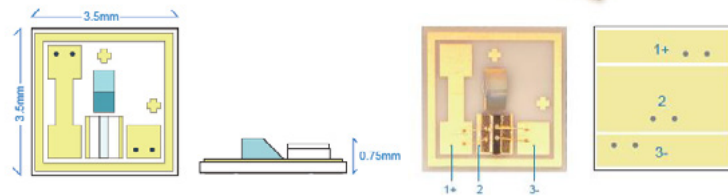
940nm 200mW

Features

Compact volume
High power conversion efficiency
Open package

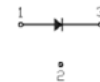
Applications

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	945	nm	Po=200mW
Threshold Current	I _{th}		54	65	mA	
Operating Current	I _{op}	300	320	340	mA	Po=200mW
Operating Voltage	V _{op}		1.9	2.1	V	Po=200mW
Differential Efficiency	η	0.65	0.70	0.80	mW/mA	Po=100-200mW
Parallel Divergence Angle	θ	4	7	13	deg.	Po=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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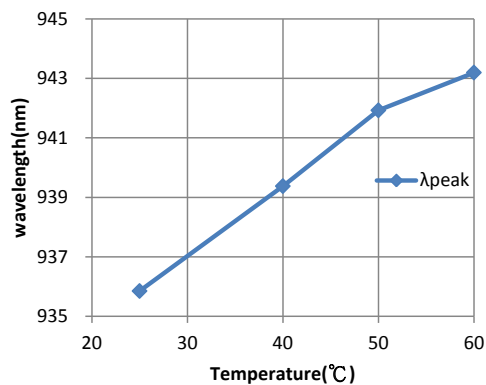
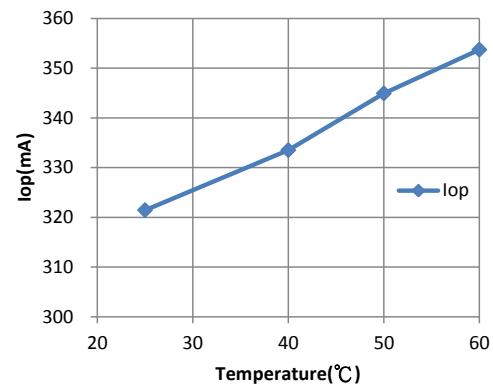
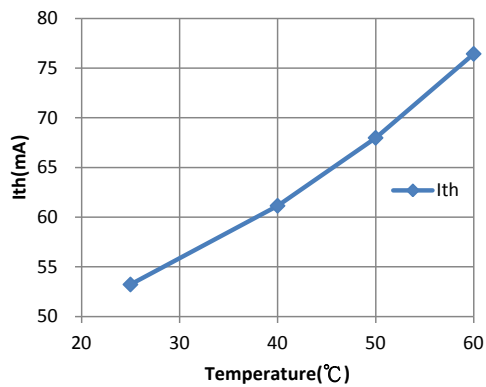
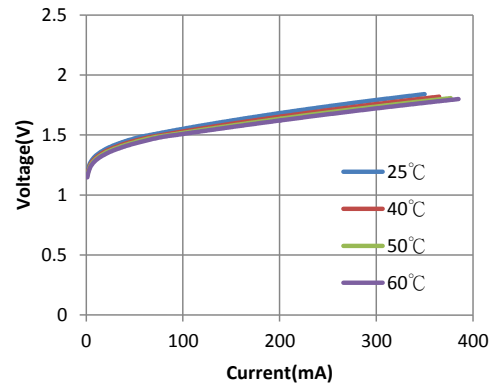
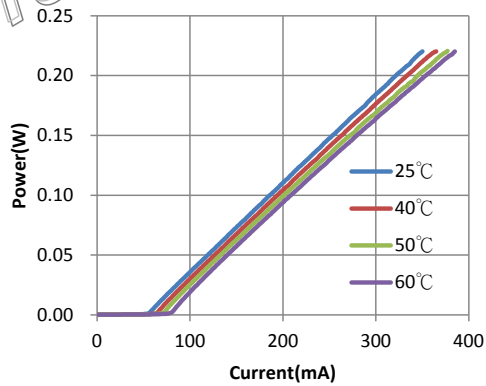
Arima
LASERS

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