

940nm Infrared Laser Diode

ADL-94Y01TL

6-2D-LD90-002_Rev.01

940nm 200mW

Features

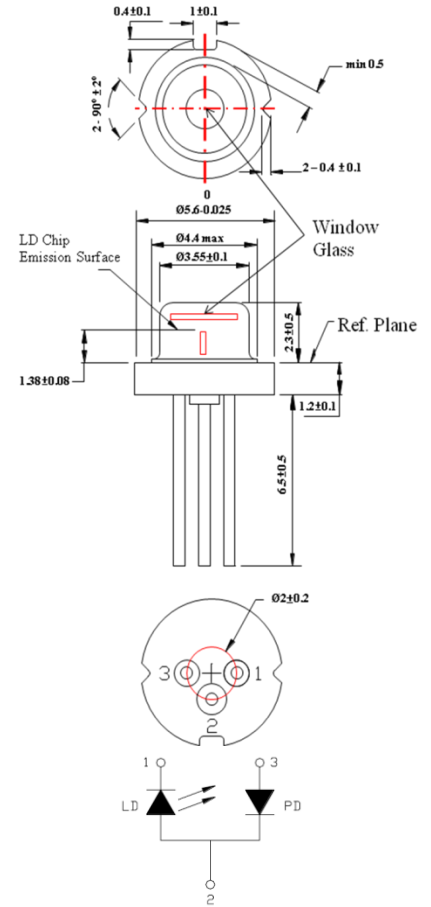
- High quality
- Highly reliable
- High performance in temperature characteristic

Applications

- Fiber Lasers Pumping
- Laser Ranging
- 3D Sensing Application

Absolute Maximum Ratings

Parameter	Symbol	Condition	Rating	Unit
Light Output Power	P_O	CW	220	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	-	-10~60	°C
Storage Temperature	TS	-	-40~85	°C



Electrical and Optical Characteristics(Tc=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	λ	930	940	950	nm	$P_o=200mW$
Threshold Current	I_{th}		45	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	0.65	0.75	1	mW/mA	$P_o=100-200mW$
Monitor current	I_m		0.37	1	mA	$P_o=200mW, V_R=5V$
Parallel divergence angle	$\theta_{//}$	4	7	13	deg.	$P_o=200mW$
Perpendicular divergence angle	θ_{\perp}	12	19	25	deg.	
Parallel FFP deviation angle	$\Delta\theta_{//}$	-3	0	3	deg	
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-3	0	3	deg	
Emission point accuracy	$\Delta x\Delta y\Delta z$	-80	0	80	um	

* Sufficient heat dissipation is required for CW operation.

● 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.

ARIMA LASERS CORP.

PHONE: 886-3-4699800 | FAX: 886-3-4699600

E-MAIL: Ldsales@arimlasers.com | www.arimlasers.com

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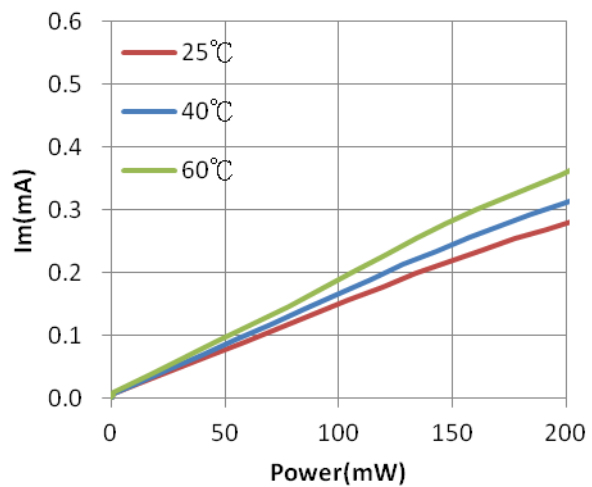
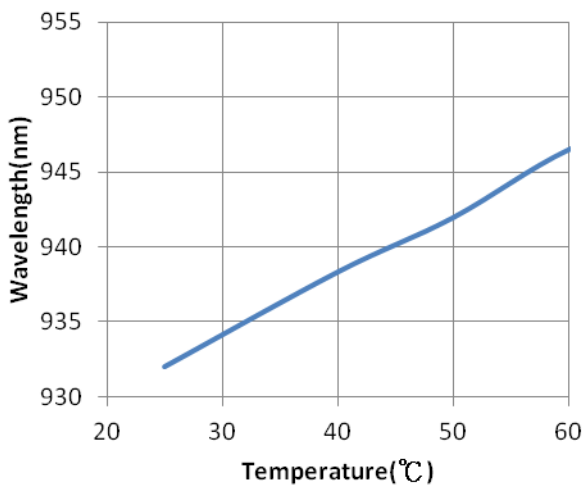
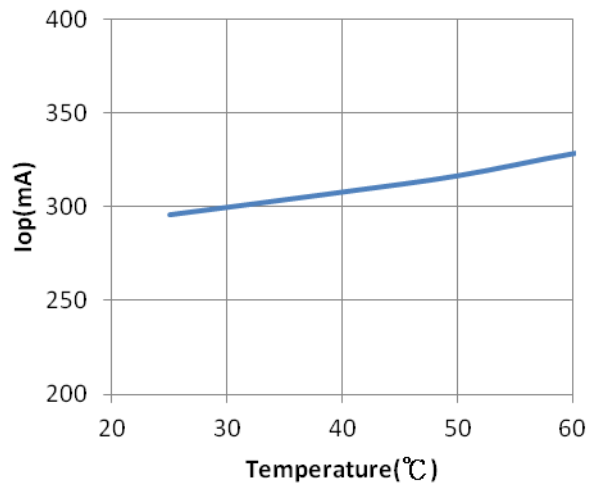
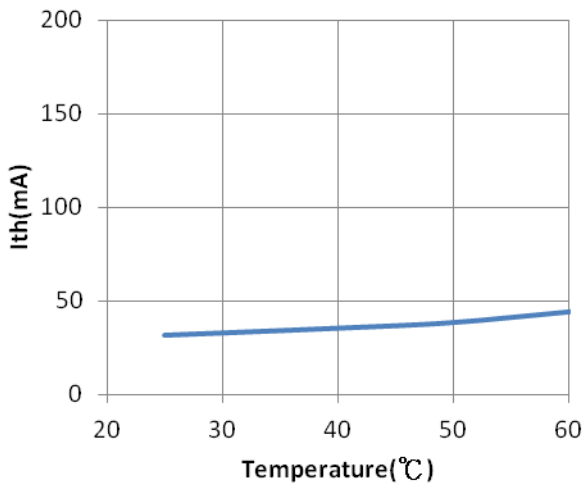
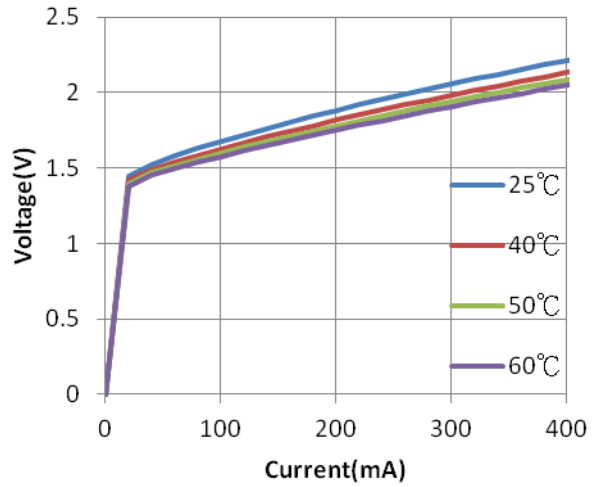
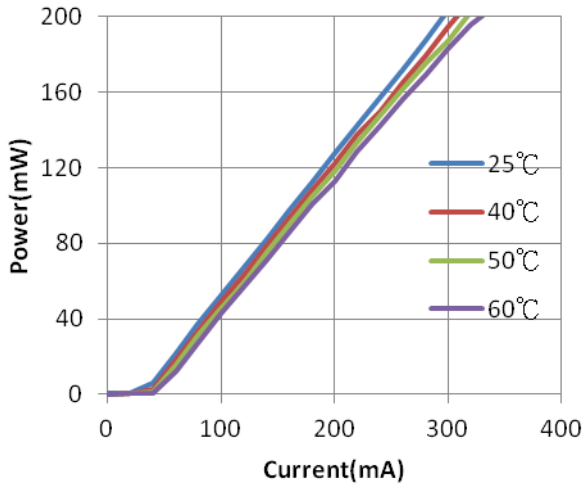
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