

## 940nm Infrared Laser Diode

ADL-94Y01TZ

940nm 200mW

### Features

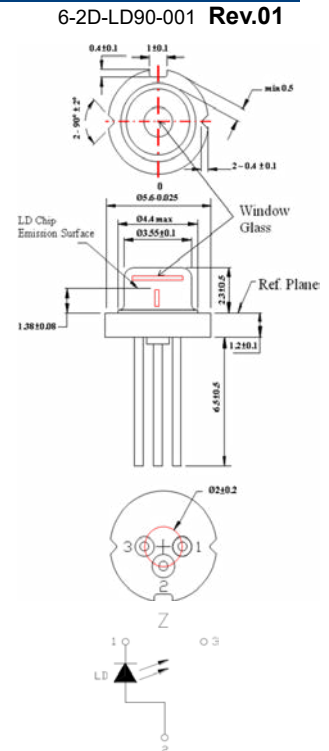
- High quality
- Highly reliable
- High performance in temperature characteristic

### 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
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	$\lambda$	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	$\eta$	0.7	0.75	0.85	mW/mA	$P_o=100-200mW$
Parallel divergence angle	$\theta_{//}$	4	7	13	deg.	$P_o=200mW$
Perpendicular divergence angle	$\theta_{\perp}$	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.

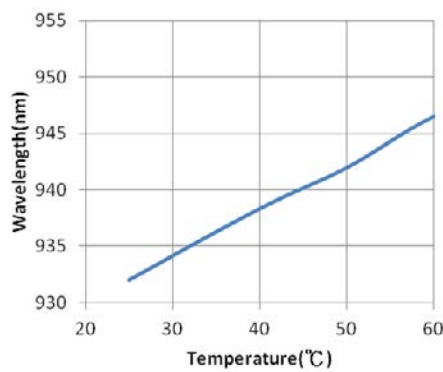
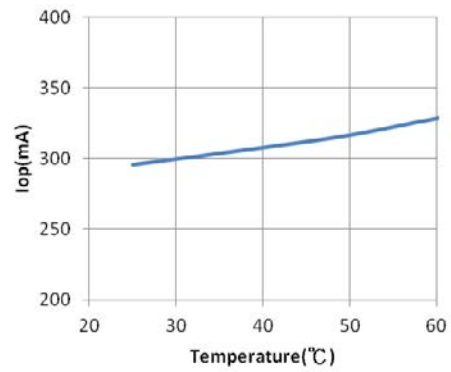
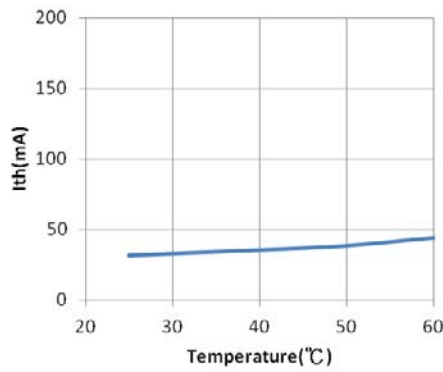
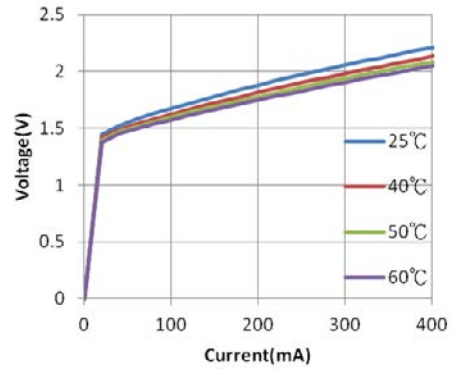
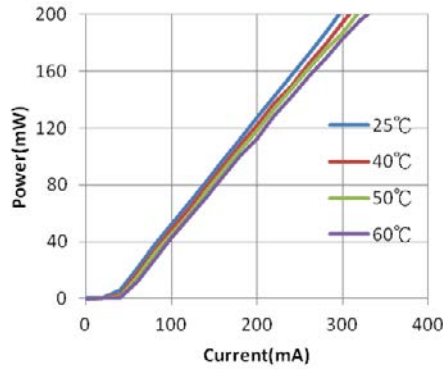
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6-2D-LD90-001 Rev.01

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