# **AlGaAs** Invisible Laser Diode ADL-80Y01TX/TZ

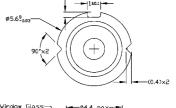
## 808nm 200mW 5.6 TO-Type High Power Laser Diode

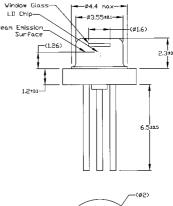
#### Features

- 1. Standard 5.6 TO-type: easy for design, assembly and integration
- 2. Low operation current
- 3. Long operation lifetime, MTTF>10000 hrs
- 4. Cost effective

### Applications

- 1. Pumps for solid state lasers
- 2. Miniature low power green laser
- 3. Medical use



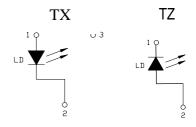




#### () denoted typical value

### Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	Po	CW	200	mW
Reverse voltage (LD)	$V_{RL}$	-	2	V
Case temperature	T <sub>C</sub>	-	-10~+50	°C
Storage temperature	Ts	-	-40~+75	°C



## •Electrical and optical characteristics (T<sub>c</sub>=25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Peak wavelength		805	808	811	nm	P <sub>o</sub> =200mW
Threshold current	I <sub>th</sub>	-	55	75	mA	
Operating current	l <sub>op</sub>	-	260	280	mA	P <sub>o</sub> =200mW
Operating voltage	$V_{op}$	-	1.7	1.9	V	P <sub>o</sub> =200mW
Differential efficiency		0.8	1	-	mW/mA	P <sub>o</sub> =150-200mW
Parallel divergence angle	//	-	9	15	degree	
Perpendicular divergence angle		-	41	48	degree	P <sub>o</sub> =200mW
Emission point accuracy	хуг	-	-	±80	um	

recommended that always apply proper heat sink before the device is operating.

4. Do not look into the laser beam directly by bare eyes. The laser beam may cause severe damage to human eyes

Do not operate the device above the maximum rating condition, even momentarily. It may cause unexpected permanent damage to the device.
 Semiconductor laser device is very sensitive to electrostatic discharge. High voltage spike current may change the characteristics of the device, or malfunction at any time during its service period. Therefore, proper measures for preventing electrostatic discharge are strongly recommended.
 Effective heat sink can help the device operates under a more relax condition; as a result, a more stable characteristics and better reliability can be achieved. So it is

