

Infrared Laser Diode

ADL-80Y05TL**T6-2D-LD80-001_Rev.00**

808nm 200mW High Power Operation

•Features

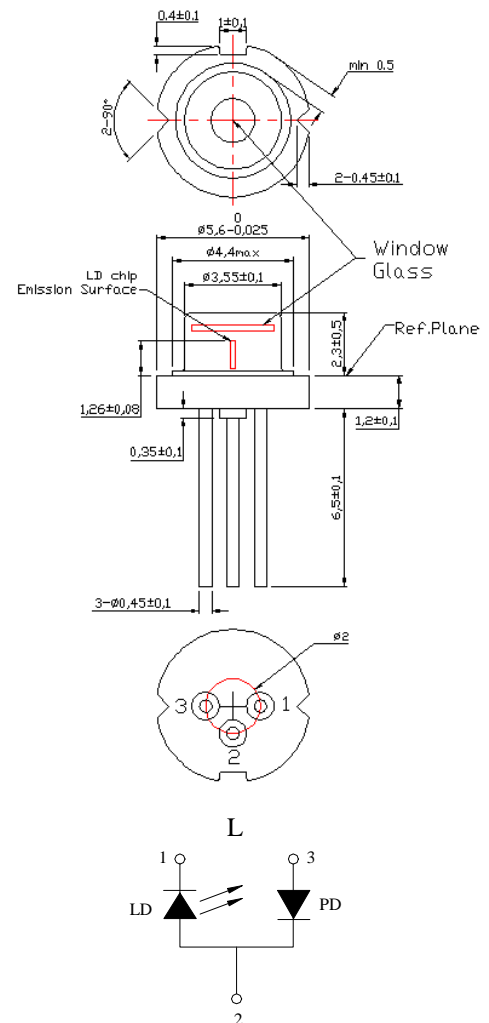
1. High pumping efficiency
2. Stable wavelength
3. High reliability

•Applications

1. Pumping source for DPSS green laser
2. Medical 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~+50	°C
Storage temperature	T_S	-	-40~+85	°C



•Electrical and optical characteristics ($T_c=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions (CW)
Peak wavelength	λ	801	-	809	nm	$P_O=200\text{mW}$
Threshold current	I_{th}	-	60	100	mA	
Operating current	I_{op}	-	260	320	mA	
Operating voltage	V_{op}	-	1.9	2.2	V	
Differential efficiency	η	0.8	1.0	-	mW/mA	$P_O=150\text{-}200\text{mW}$
Monitor Current	I_m	0.3	-	2.4	mA	$P_O=200\text{mW}$
Parallel divergence angle	θ_{\parallel}	-	6	11	deg	$P_O=200\text{mW}$
Perpendicular divergence angle	θ_{\perp}	-	28	40	deg	
Parallel FFP deviation angle	$\Delta\theta_{\parallel}$	-3	0	+3	deg	
Perpendicular FFP deviation angle	$\Delta\theta_{\perp}$	-5	0	+5	deg	
Emission point accuracy	$\Delta x \Delta y \Delta z$	-80	0	+80	um	

●Precautions

- * Do not operate the device above maximum ratings. 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.

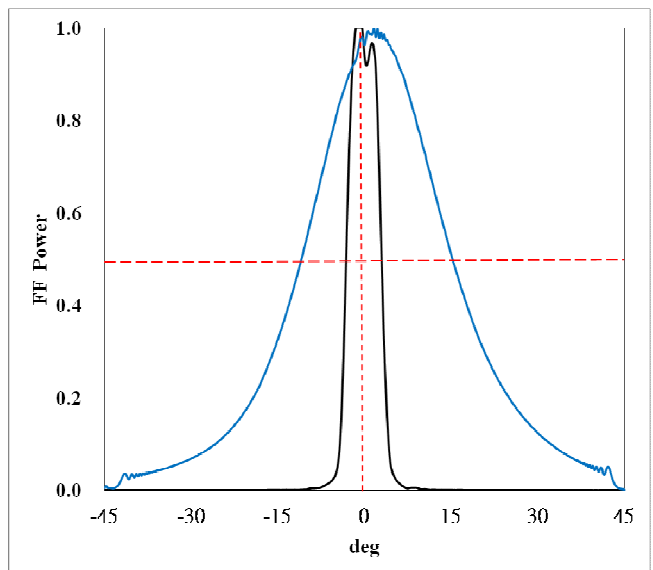
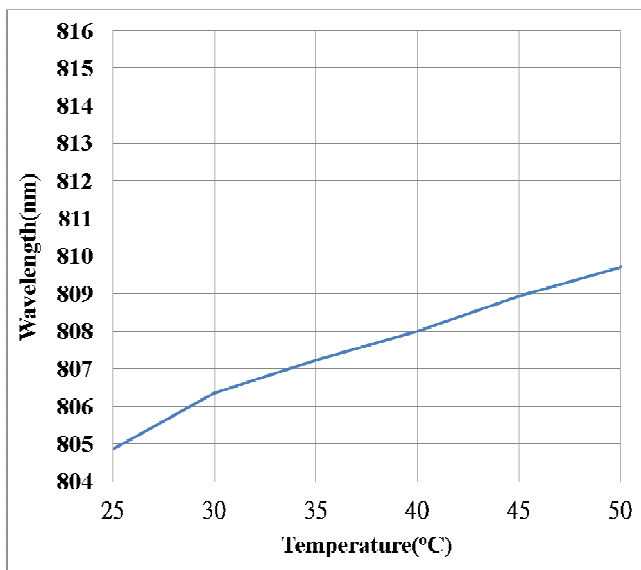
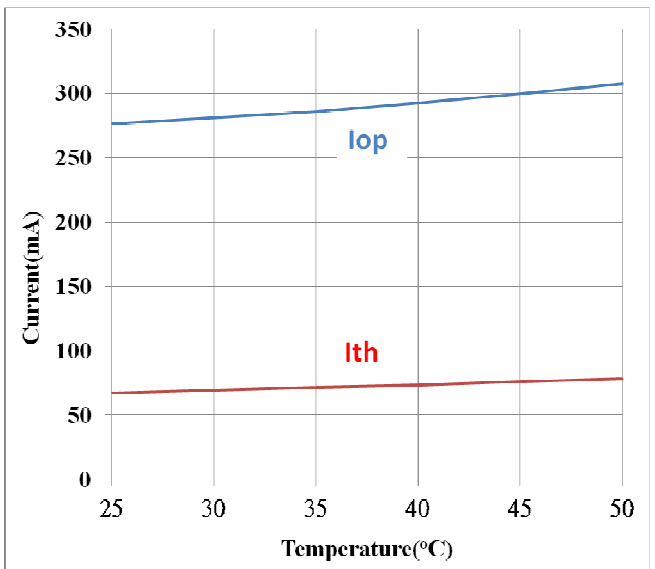
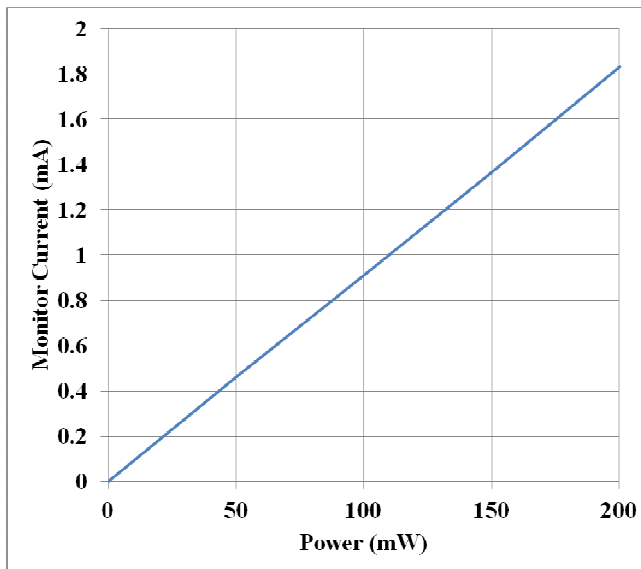
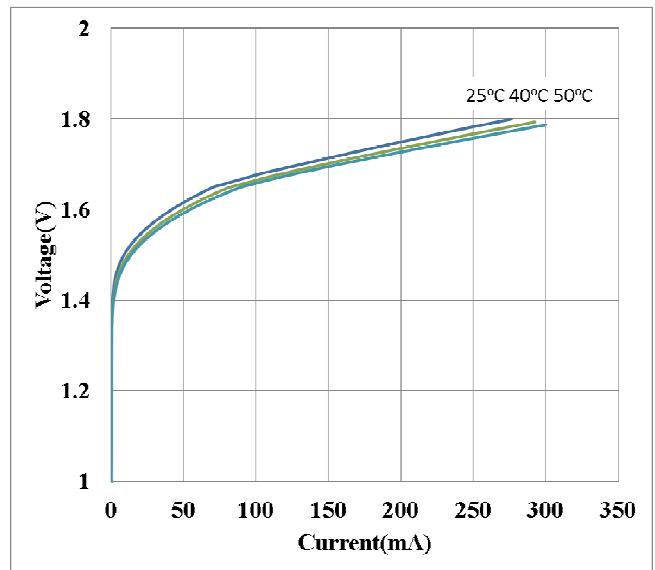
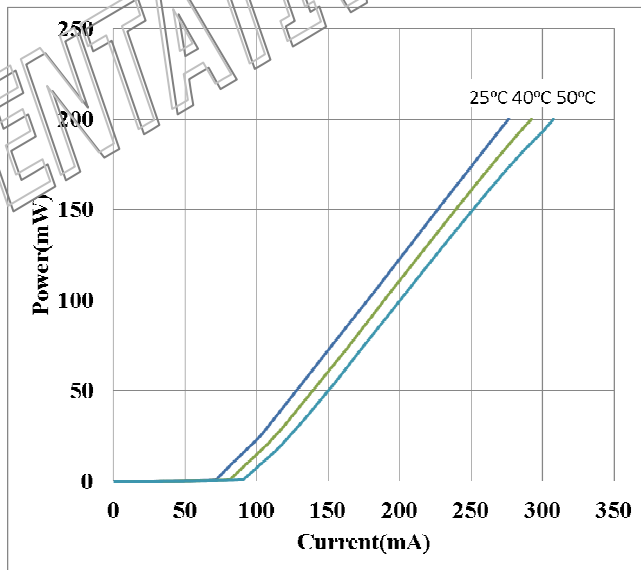
* For reference only. Contents above are subject to change without notice.

Arima
LASERS

Infrared Laser Diode

ADL-80Y05TL

T6-2D-LD80-001_Rev.00



* For reference only. Contents above are subject to change without notice.

Arima
LASERS