

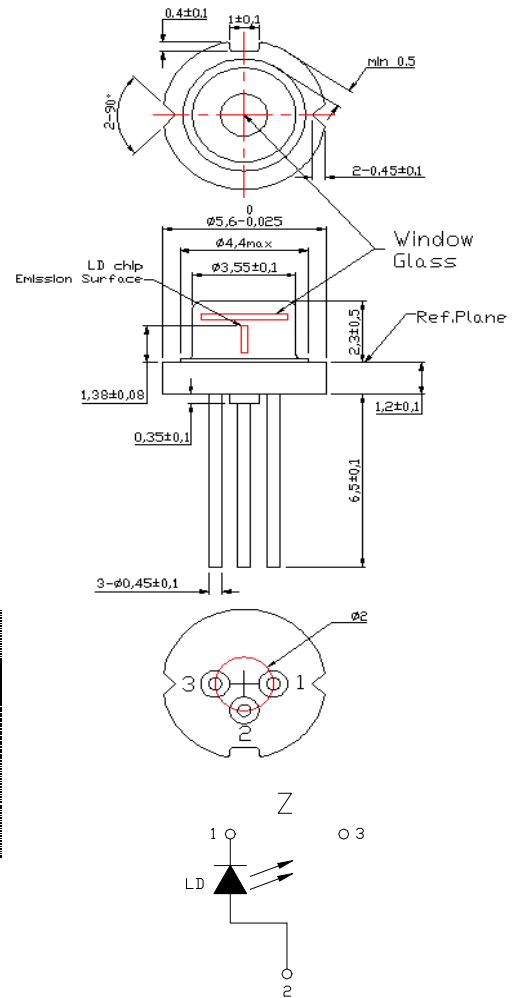
### 808nm 200mW High Power Operation

#### •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	$\lambda$	804	-	809	nm	
Threshold current	$I_{th}$	-	60	100	mA	$P_o=200\text{mW}$
Operating current	$I_{op}$	-	260	300	mA	
Operating voltage	$V_{op}$	-	1.9	2.2	V	
Differential efficiency	$\eta$	0.8	1.0	-	mW/mA	$P_o=150\text{-}200\text{mW}$
Parallel divergence angle	$\theta_{//}$	-	6	11	deg	$P_o=200\text{mW}$
Perpendicular divergence angle	$\theta_{\perp}$	-	28	40	deg	
Parallel FFP deviation angle	$\Delta\theta_{//}$	-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	

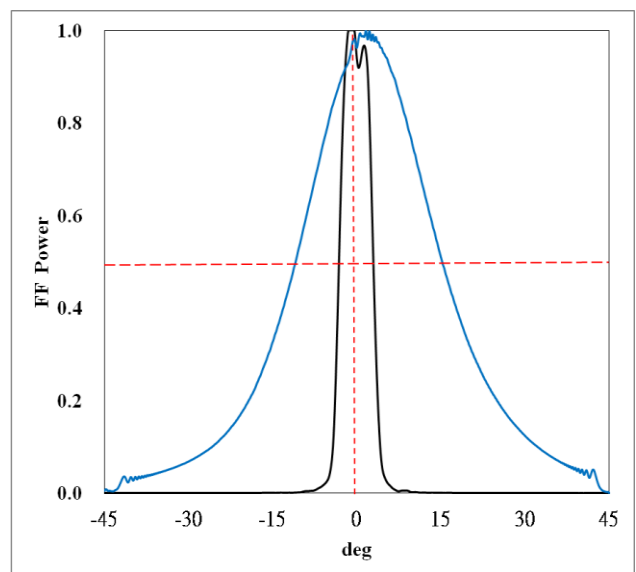
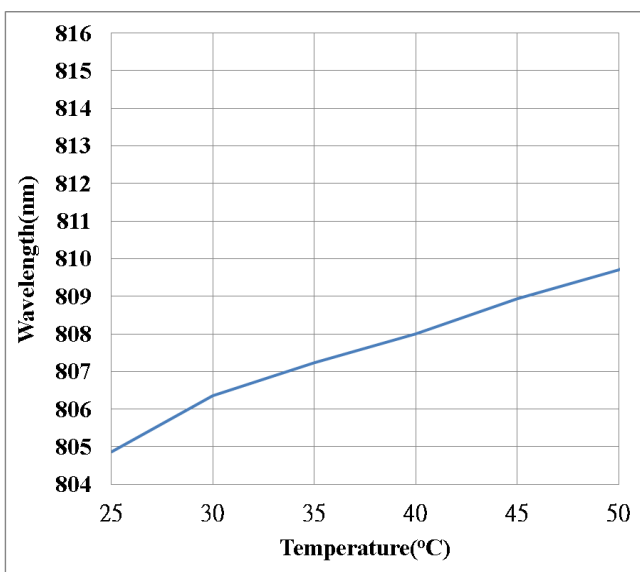
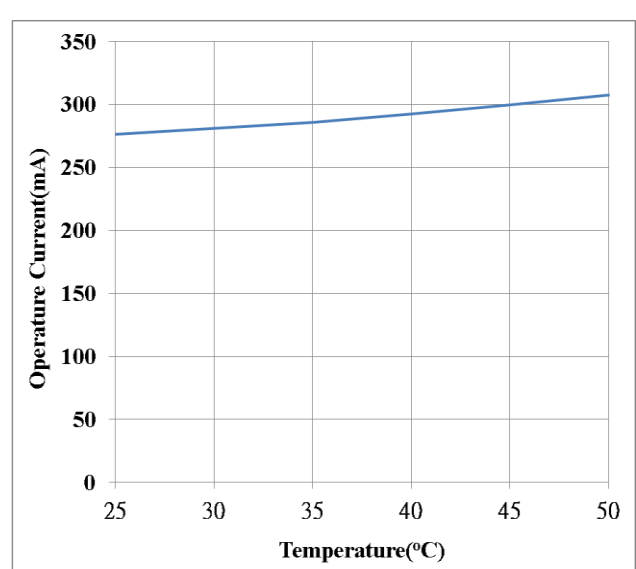
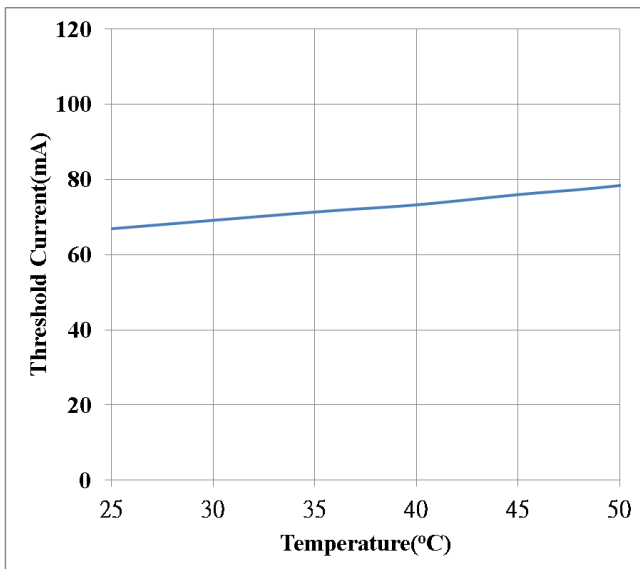
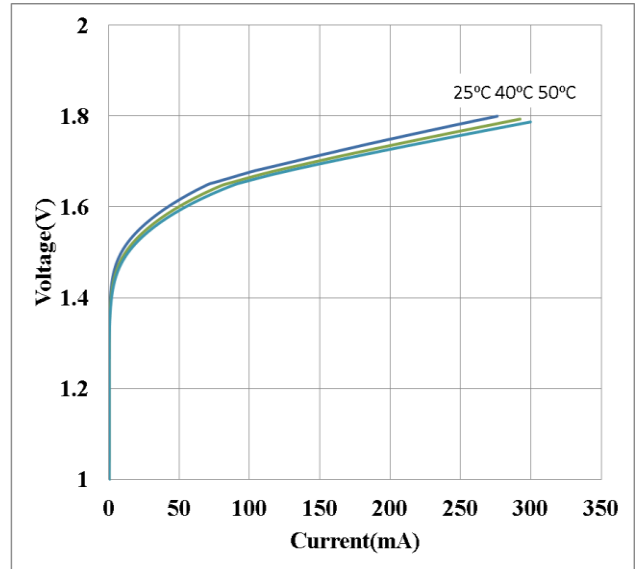
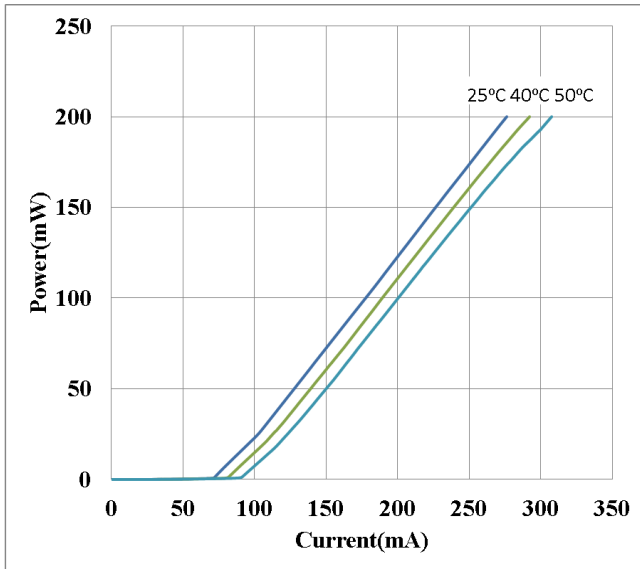
#### ●Precautions

- \* 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.

# Infrared Laser Diode

## ADL-80Y05TZ

6-2D-LD80-019\_Rev.01



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

**Arima**  
LASERS