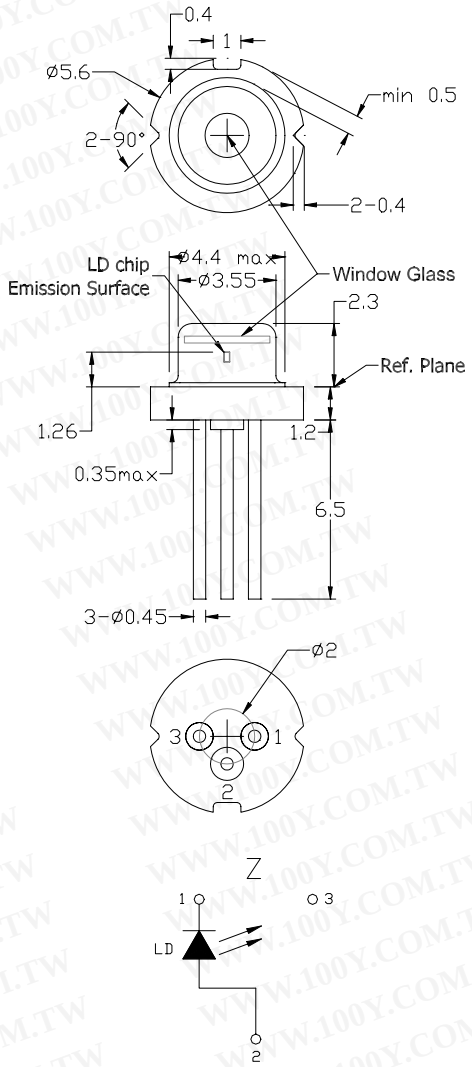
勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

Infrared Laser Diode

ADL-80Y04TZ

6-2D-LD80-001_Rev.03

808nm 200mW High Power Operation



- Features
  1. Low threshold current
  2. Low operation current
  3. High pumping efficiency
  4. Stable wavelength
  5. 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 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions (CW)
Peak wavelength	λ	805	808	811	nm	P_o=200mW
Threshold current	I_{th}	-	60	75	mA	
Operating current	I_{op}	-	230	260	mA	
Operating voltage	V_{op}	-	1.9	2.2	V	
Differential efficiency	η	0.8	1.2	-	mW/mA	P_o=150-200mW
Parallel divergence angle	$\theta_{//}$	-	8	11	deg	P_o=200mW
Perpendicular divergence angle	$\theta_{\perp}$	-	39	48	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.

Notice: Arima Lasers proposes to operate ADL-80Y04TZ by the external APC circuit

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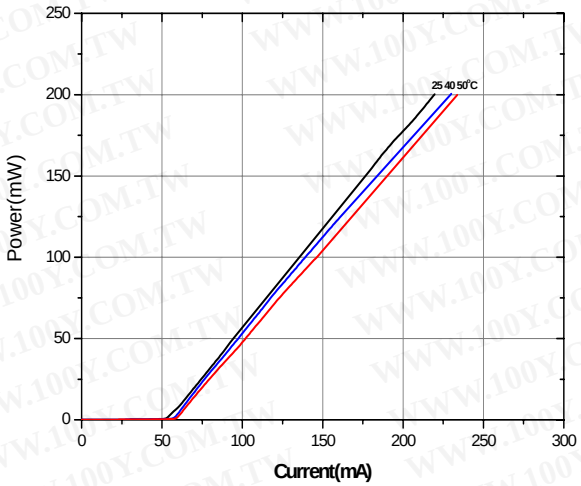

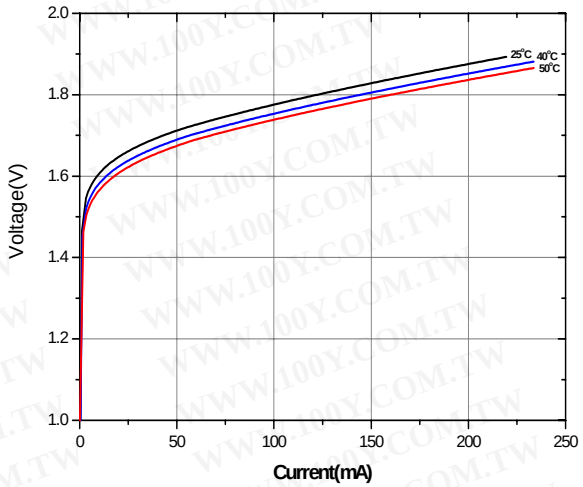

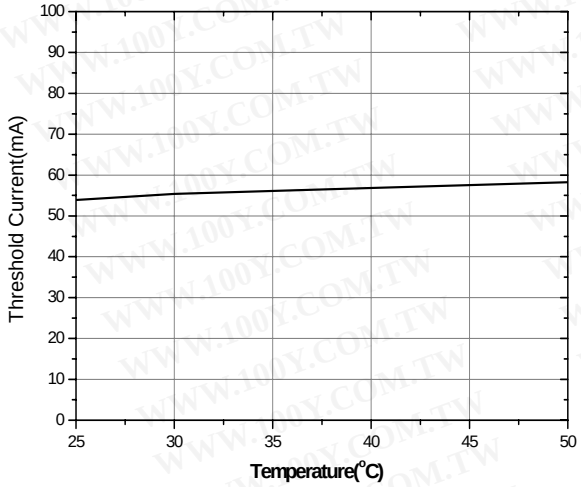

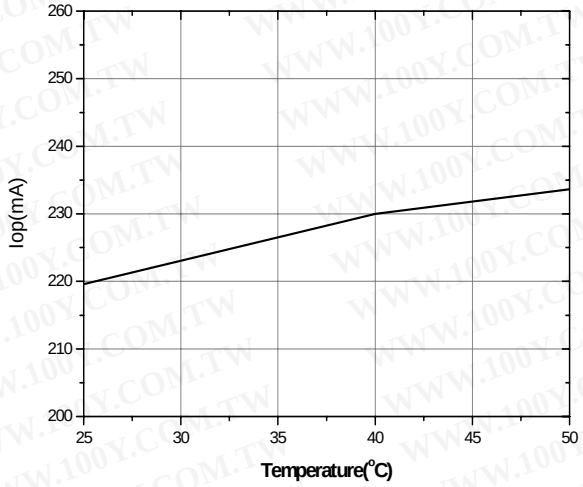

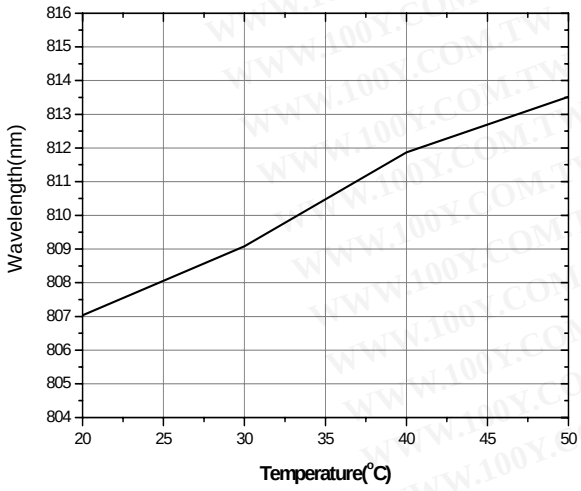

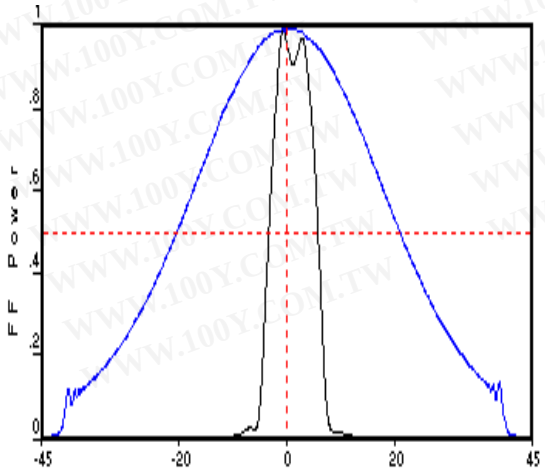

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