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APPROVAL SHEET

(承认书)

ITEM: ADL-80Y04TZ-1

版本 (Verison): ADL-80Y04TZ-1 V1.0

日期 (Date): 2009-02-16

Prepared By (制订)	Confirmed By (确认)	Approved By (承认)		
Skun	(本)			
Date (日期)	Date (日期)	Date (日期)		



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Infrared Laser Diode

ADL-80Y04TZ-1

ADL-80Y04TZ-1 V1.0

808nm/200mW 50°C Infrared Laser Diode

Features

- Removable cap design (Easy decap)
- High pumping efficiency
- High reliability
- Low threshold current
- Low operation current
- Stable waelength

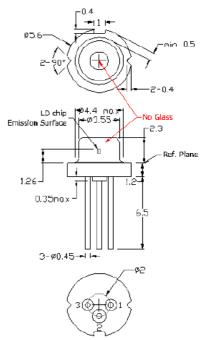
Applications

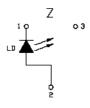
- Pumping source for DPSS green laser
- Medical applications

Absolute maximum ratings (TC=25°C)

Parameter	Symbol	Condition	Rating	Unit
Light output power	P_0	CW	200	mW
Reverse voltage (LD)	V_{RL}	-	2	V
Case Temperature	T _C	-	-10~+50	$^{\circ}\!\mathbb{C}$
Storage temperature	Ts	-	-40~+85	$^{\circ}$ C

Dimension -H1 H-





Electrical and ontical characteristics

(TC=25°C)

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Parameter	Symbol	Min	Тур.	Max.	Unit	Condition (CW)
Peak wavelength	λ	805	807	811	nm	Po = 200mW
Threshold current	I _{th}	-	60	75	mA	
Operating current	l _{op}	-	230	260	mA	
Operating voltage	V_{op}	-	1.9	2.1	V	
Differential efficiency		8.0	1.2	-	mW/mA	Po = 150~200mW
Parallel divergence angle		-	8.0	11.0	deg	
Perpendicular divergence angle		-	39	48	deg]
Parallel FFP deviation angle		-3.0	0.0	+3.0	deg	Po = 200mW
Perpendicular FFP deviation angle		-5.0	0.0	+5.0	deg]
Emission Point Accuracy	∆x∆y∆z	-80	0	+80	um	

- 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 the maximum operating temperatures are not exceeded.
- Observing visible on 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 laser specification by contacting us prior to purchase or use of the product

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