6-2D-LD80-019 Rev.00

## 808nm 200mW High Power Operation

## Features

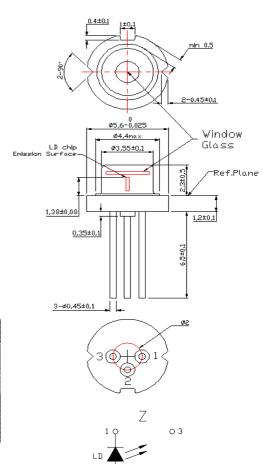
- High pumping efficiency
- 2. Stable wavelength
- 3. High reliability

## Applications

- 1. Pumping source for DPSS green laser
- 2. Medical applications



Parameter	Symbol	Condition	Rating	Unit
Light output power	Po	CW	220	mW
Reverse voltage (LD)	$V_{RL}$	-	2	V
Case temperature	T <sub>C</sub>	-	-10~+50	°C
Storage temperature	T <sub>S</sub>	-	-40~+85	°C



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

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Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions (CW)	
Peak wavelength	λ	804	-	809	nm		
Threshold current	I <sub>th</sub>	-	60	100	mA		
Operating current	l <sub>op</sub>	-	260	300	mA	P <sub>o</sub> =200mW	
Operating voltage	V <sub>op</sub>	-	1.9	2.2	V		
Differential efficiency	η	8.0	1.0	-	mW/mA	P <sub>o</sub> =150-200mW	
Parallel divergence angle	$\theta_{\prime\prime}$	-	6	11	deg		
Perpendicular divergence angle	$ heta_{\scriptscriptstyle \perp}$	-	28	40	deg		
Parallel FFP deviation angle	$\Delta  \theta_{ \prime\prime}$	-3	0	+3	deg	P <sub>o</sub> =200mW	
Perpendicular FFP deviation angle	$\Delta heta$ $_{\perp}$	-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.

