

## ★ 808nm 200mW High Power Operation

## ● Features

1. High power
2. High temperature operation

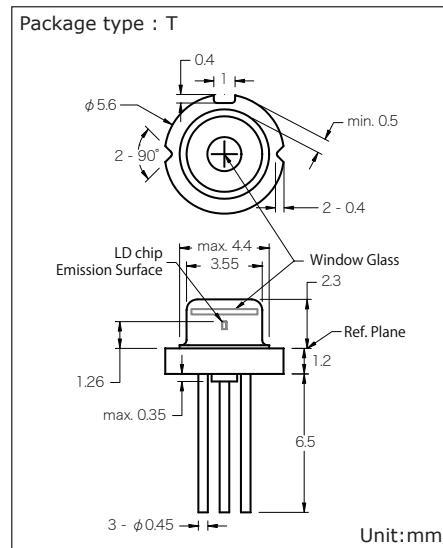


Fig.1:Outside view

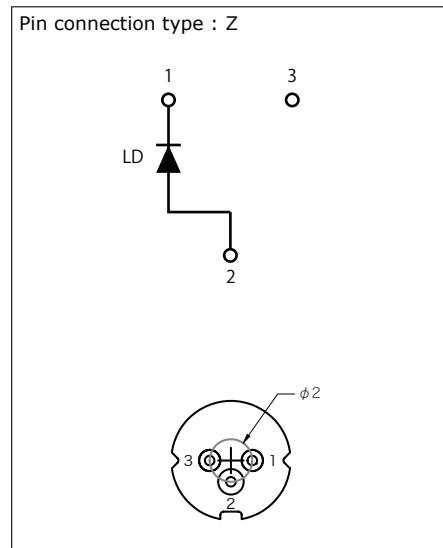


Fig.2:Pin connection

## ● Absolute maximum ratings

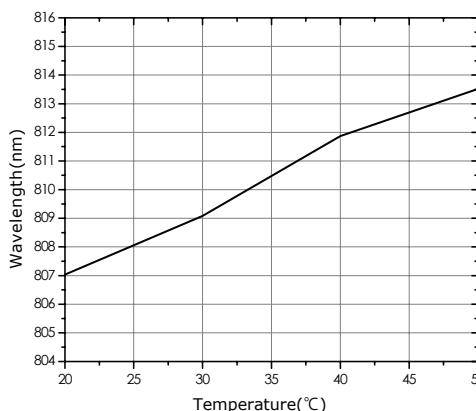
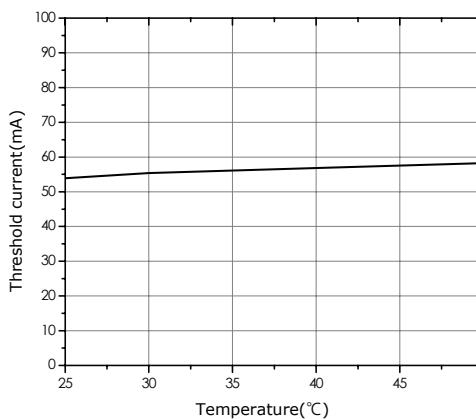
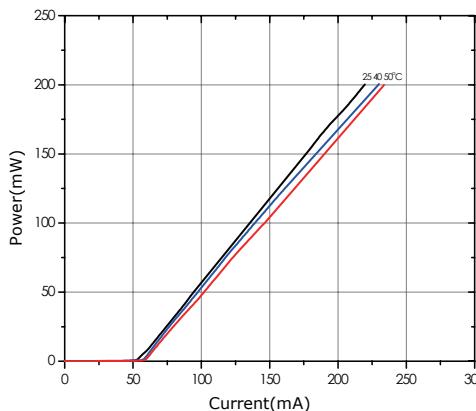
Parameter	Symbol	Condition	Rating	Unit
Light output power	P <sub>o</sub>	CW	220	mW
Reverse voltage (LD)	V <sub>RL</sub>	-	2	V
Case temperature	T <sub>c</sub>	-	-10~+50	°C
Storage temperature	T <sub>s</sub>	-	-40~+85	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Peak wavelength	λ	805	808	811	nm	
Threshold current	I <sub>th</sub>	-	60	75	mA	P <sub>o</sub> =200mW
Operating current	I <sub>op</sub>	-	230	260	mA	
Operating voltage	V <sub>op</sub>	-	1.9	2.2	V	
Differential efficiency	η	0.8	1.2	-	mW/mA	P <sub>o</sub> =150-200mW
Parallel divergence angle	θ <sub>  </sub>	-	8	11	deg	
Perpendicular divergence angle	θ <sub>⊥</sub>	-	39	48	deg	
Parallel FFP deviation angle	Δθ <sub>  </sub>	-3	0	+3	deg	P <sub>o</sub> =200mW
Perpendicular FFP deviation angle	Δθ <sub>⊥</sub>	-5	0	+5	deg	
Emission point accuracy	ΔxΔyΔz	-80	0	+80	μm	

Notice : It is recommended to operate this Laser diode by external APC circuit.

**LD808-200-TZ**



## ● 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.