

# BLUE LASER DIODE

## 405nm/200mW HIGH POWER OPERATION

### ◆ Features

- Lower Operation current
- Stable wavelength
- High reliability

### ◆ Applications

- Blue Laser
- Medical applications

### ◆ Absolute maximum ratings

Parameter	Symbol	Condition	Rating	Unit
Light output power	$P_0$	CW	200	mW
Reverse voltage (LD)	$V_R$	-	5	V
Case Temperature	$T_C$	-	-10~+40	°C
Storage temperature	$T_S$	-	-40~+85	°C

\*\*\*PD Reverse Voltage = 20V & the recommend operating temperature range is +250 ~ +30°C

### ◆ Electrical and optical characteristics

Parameter	Symbol	Min	Typ.	Max.	Unit	Condition (CW)
Peak wavelength	$\lambda$	400	405	410	nm	$P_0 = 200\text{mW}$
Threshold current	$I_{th}$	-	100	130	mA	
Operating current	$I_{op}$	-	230	270	mA	
Operating voltage	$V_{op}$	-	4.2	4.8	V	$P_0 = 200\text{mW}$
Differential efficiency		1.0	1.5	2.0	mW/mA	
Parallel divergence angle		8.0	16.0	26.0	deg	$P_0 = 200\text{mW}$
Perpendicular divergence angle		32.0	42.0	50.0	deg	
Parallel FFP deviation angle		-2	-	2	deg	
Perpendicular FFP deviation angle		-2.5	-	2.5	deg	

#### ●Precautions

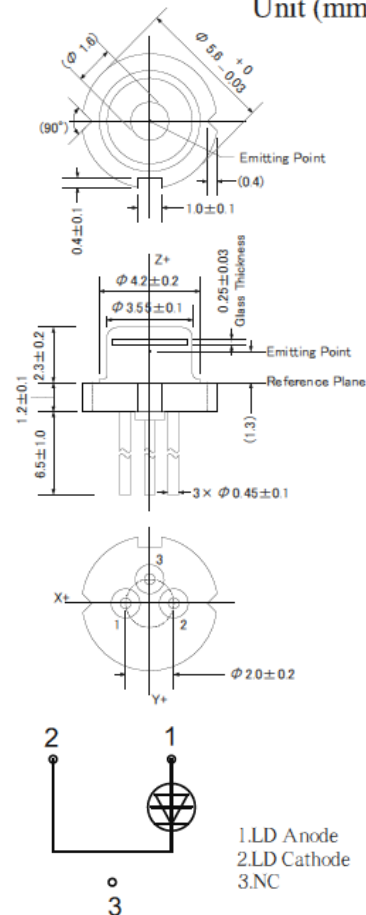
- \* Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.
- \* Take precautions to avoid electrostatic discharge and / or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- \* Proper heat sinking of the device assures stability and lifetime. Always ensure 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

## YL-Φ5.6LD-405nm(B)

### YL-Φ5.6LD-405nm(B)\_V1.0

#### Dimension

Unit (mm)



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