

BLUE LASER DIODE

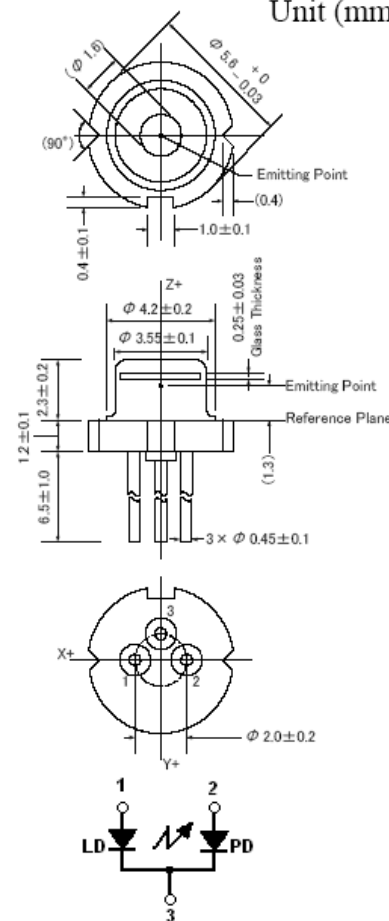
YL-Φ5.6LD-405nm(A)

YL-Φ5.6LD-405nm(A)_V2.0

405nm/20mW 75°C Reliable Operation Design

Dimension

Unit (mm)



◆ Features

- Short wavelength : 405nm (Typ.)
- Low threshold current : I_{th}=26mA (Typ.)
- With PD

◆ Applications

- Blue laser light
- Industrial use

◆ Absolute maximum ratings

(TC=25°C)

Parameter	Symbol	Condition	Rating	Unit
Light output power	P ₀	-	20	mW
Reverse voltage (LD)	V _{RL}	-	2	V
Case Temperature	T _C	-	0~+75	°C
Storage temperature	T _S	-	-40~+85	°C

◆ Electrical and optical characteristics

(TC=25°C)

Parameter	Symbol	Min	Typ.	Max.	Unit	Condition (CW)
Peak wavelength*	λ	395	405	415	nm	P ₀ = 10mW, CW
Threshold current	I _{th}	-	26	50	mA	P ₀ = 20mW, CW
Operating current	I _{op}	-	35	60	mA	
Operating voltage	V _{op}	-	4.8	5	V	
Differential efficiency		0.7	1.1	-	mW/mA	P ₀ = 10mW
Monitor current**	I _m	0.1	0.6	1	mA	P ₀ = 20mW
Parallel divergence angle		6	8.5	12	deg	P ₀ = 10mW
Perpendicular divergence angle		16	19	23	deg	
Parallel FFP deviation angle		-2	0	+2	deg	
Perpendicular FFP deviation angle		-2	0	+2	deg	

*Measuring Specifications.

**Monitor Current is short time power reference purpose Only. (No guaranteed for accuracy.)

● 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 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 laser specification by contacting us prior to purchase or use of the product

Notice : YesLED proposes to operate YL-Φ5.6LD-405(A) by the external APC circuit.

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