

Part number: WLD-175-405

405 nm, 175 mW Blue-Violet Laser Light Source

The WLD-175-405 is 405 nm single mode blue-violet laser diode with 175 mW optical power (CW)

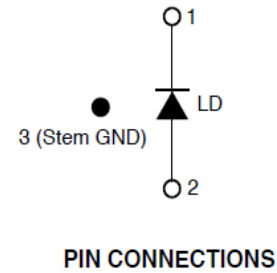
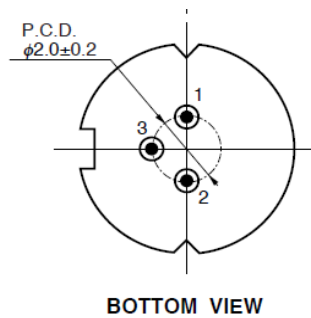
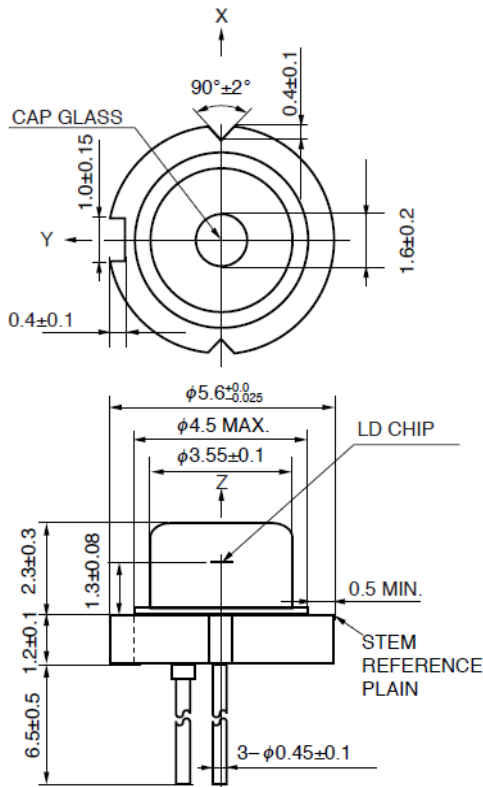
Feature: Single Transverse mode (Lateral)

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Optical Output Power	P _o	210	mW
Reverse Voltage	V _R	2	V
Operating Case Temperature	T _c	-5 to +85	°C
Storage Temperature	T _{stg}	-40 to +85	°C

Electro-Optical Characteristics

Parameter	Symbol	Conditions	Min	Typ.	Max	Unit
Threshold Current	I _{th}	CW		55		mA
Operating Current	I _{op}	CW, P _o = 175 mW		150	200	mA
Operating Voltage	V _{op}	CW, P _o = 175 mW		5	6	V
Slope Efficiency	η _d			1.1		W/A
Peak Wavelength	λ _p	CW, P _o = 175 mW	401	405	409	nm
Beam Divergence (lateral)	θ _∥	CW, P _o = 175 mW	6	9	12	deg
Beam Divergence (vertical)	θ _⊥	CW, P _o = 175 mW	15	20	25	deg.
Position Accuracy Angle (horizontal)	Δθ _∥	CW, P _o = 175 mW	-3	0	3	mA
Position Accuracy Angle (vertical)	Δθ _⊥	CW, P _o = 175 mW	-3	0	3	mA

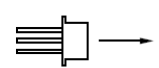


DANGER

VISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION

OUTPUT POWER 3W MAX
WAVELENGTH 400 to 680nm
CLASS IIIb LASER PRODUCT

SEMICONDUCTOR LASER



AVOID EXPOSURE-Invisible
Laser Radiation is emitted from
this aperture