

BLUE-VIOLET LASER DIODE



SDL-405-150-302F

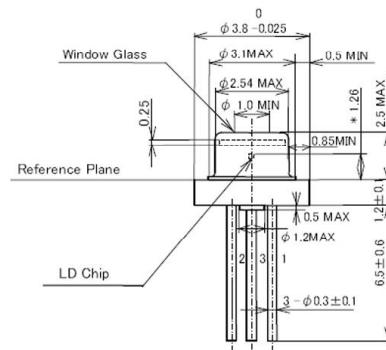
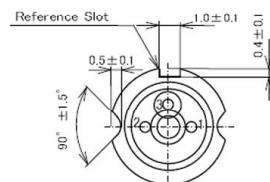
Features

Wavelength: 405nm (Typ.)

Optical power: Po = 150mW CW (Typ.)

Package: TO-38, Φ3.8mm (RoHS compliant)

Package



Applications

Industrial Applications
BluRay Recorder

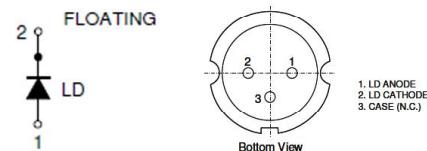
Absolute Maximum Ratings

(Tc=25°C)

Parameter	Symbol	Rating	Unit
Optical Output (CW)	Po	150	mW
Optical Output (Pulse)	Po	280	mW
Reverse Voltage	Vr	2	V
Operating Temperature	Top	-10~+80	°C
Storage Temperature	Tstg	-40~+85	°C

* Case Temperature

Pin Connection



Electrical and Optical Characteristics

(Tc=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	Ith	-	-	45	60	mA
Operating Current	Iop	Po=120W	-	120	150	mA
Operating Voltage	Vop	-	-	5.0	6.0	Volt
Slope Efficiency	η	Po=120W	1.0	1.6	1.9	mW/mA
LD Reverse Voltage		-	-	-	-	V
Beam Divergence (FWHM)	Parallel	θ // Po=120W	6.5	8.5	11	deg.
	Perpendicular	θ ⊥ Po=120W	16	19	24	deg.
Lasing Wavelength	λ		400	405	410	nm
Beam Angle (Parallel)	Δ //		-	±2	-	nm
Beam Angle (Perpendicular)	Δ ⊥		-	±2.5	-	mA

* Angle at 50% peak intensity (full-width at half-maximum)

Note: The above specification is subject to change without notice