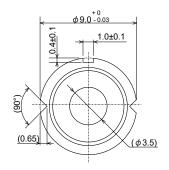
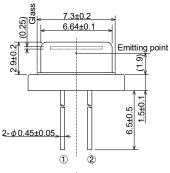
Preliminary data sheet

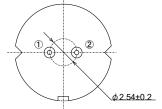
405nm/1,200mW Violet Laser Diode



Outline

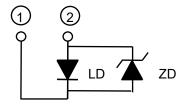






() are reference figures

Internal Circuit



(Unit: mm)

Features

- Optical output power: 1,200mW (CW)
- Violet Lasing: 405nm Typ.
- Low operating current: 950mA Typ.
- Low operating voltage: 5.1V Max.
- Package: ϕ 9.0mm
- Multiple transverse mode
- TE mode oscillation
- Built in Zener Diode

Application

- Direct imaging for PCB
- Industry
- Display
- Bio & Medical



Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Ро	1,400	mW
LD Reverse Current	l r(ld)	85	mA
Operating Temperature	Topr	0 ~ +30	°C
Storage Temperature	Tstg	-40 ~ +85	°C

Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	90	200	400	mA	-
Operating current	lop	650	950	1,400	mA	Po=1,200mW
Operating voltage	Vop	3.9	4.5	5.1	V	Po=1,200mW
Beam divergence Parallel to the junction	θ//	10	17	24	0	Po=1,200mW, Full angle 1/e ²
Beam divergence Perpendicular to the junction	θΤ	35	41	50	0	Po=1,200mW, Full angle 1/e ²
Lasing Wavelength	λр	400	_	410	nm	Po=1,200mW

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