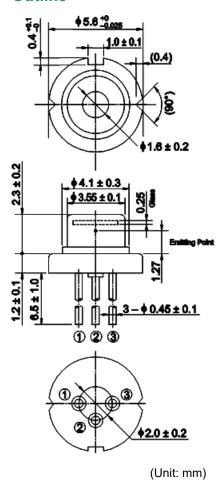
HL63591MG/592MG

639nm/5mW

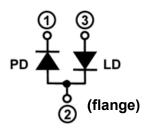
AlGaInP Laser Diode

Outline

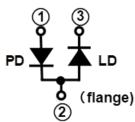


Internal Circuit





HL63592MG



Features

- Visible light output: 639 nm Typ.
- Optical output power: 5 mW (CW)
- Single transverse mode
- Low operating current: 35 mA Typ.
- Low operating voltage: 2.3 V Typ.
- Operating temperature: +60°C
- TE mode oscillation.

Application

- Distance meter
- Laser leveler
- Laser scanner
- Light source of optical equipments

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Ро	6	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +60	°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	-	30	35	mA	-
Operating current	lop	-	35	45	mA	Po=5mW
Operating voltage	Vop	-	2.3	2.5	V	Po=5mW
Beam divergence Parallel to the junction	θ//	6	8	11	0	Po=5mW, FWHM
Beam divergence Perpendicular to the junction	θΤ	16	21	24	0	Po=5mW, FWHM
Lasing Wavelength	λр	630	639	643	nm	Po=5mW
Monitor Current	Is	0.2	0.5	1.0	mA	Po=5mW, VR(PD)=5V

Data Sheet

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 - 2. This product (without violet laser diode) contains gallium arsenide (GaAs), which may seriously endanger your health even at very low doses. Please avoid treatment which may create GaAs powder or gas, such as disassembly or performing chemical experiments, when you handle the product. When disposing of the product, please follow the laws of your country and separate it from other waste such as industrial waste and household garbage.

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Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

HL63591MG/592MG

Data Sheet

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Product data and parameters may vary by user application and over time.

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