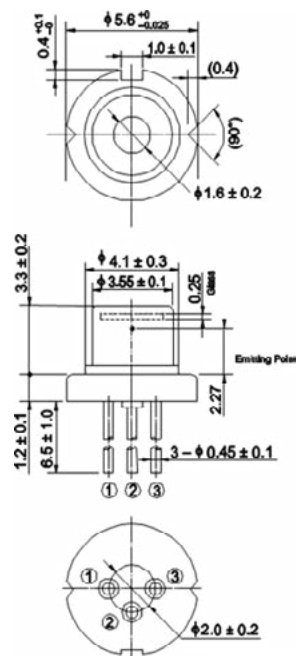


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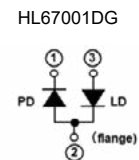
HL67001DG

675nm/210mW/Built-in monitor PD
AlGaInP Laser Diode

Outline



Internal Circuit



Features

- Visible light output: 675nm Typ.
- Optical output power: 210mW
- Low operating current: 225mA Typ.
- Built in monitor PD
- Operating temperature: +75°C
- Single transverse mode
- TE mode oscillation

Application

- Life science
- Bio-medical
- Quantum technology
- Light source of optical equipments

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Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power (1) (Tc=-10~60°C)	Po(1)	210	mW
Optical output power (2) (Tc=75°C)	Po(2)	150	mW
LD Reverse Voltage	VR(LD)	2	V
PD Reverse Voltage ^{Note2)}	VR(PD)	30	V
Operating Temperature	Topr	-10 ~ +75	°C
Storage Temperature	Tstg	-40 ~ +85	°C

Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	Ith	-	55	85	mA	-
Operating current	Iop	-	225	265	mA	Po=200mW
Operating voltage	Vop	-	2.7	3.2	V	Po=200mW
Beam divergence Parallel to the junction	θ//	5	8	11	°	Po=200mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	11	15	19	°	Po=200mW, FWHM
Lasing Wavelength	λp	670	675	680	nm	Po=200mW
Monitor current	I _s	0.1	0.7	1.8	mA	Po=200mW, VR(PD)=5V

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