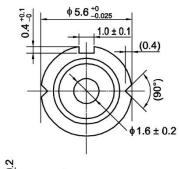
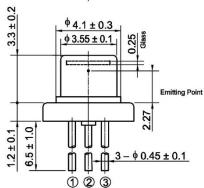


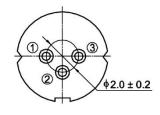
HL67011DG

671nm/210mW/Built-in monitor PD AlGaInP Laser Diode

Outline







(Unit: mm)

Internal Circuit





Features

- Visible light output: 671nm Typ.
- Optical output power: 210mW
- Low operating current: 210mA Typ.
- Built in monitor PD
- Operating temperature: +75°C
- Single transverse mode
- TE mode oscillation

Application

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



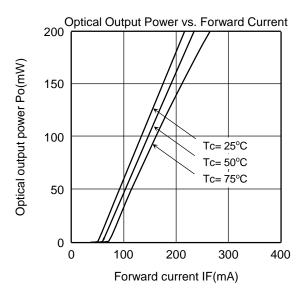
Absolute Maximum Ratings (Tc=25°C)

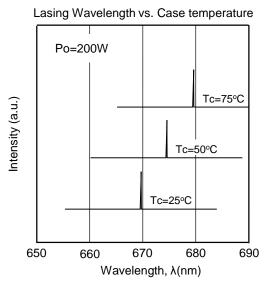
Item	Symbol	Ratings	Unit
Optical output power	Ро	210	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +75	°C
Storage Temperature	Tstg	-40 ~ +85	°C

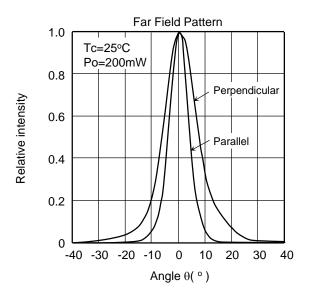
Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	-	50	80	mA	-
Operating current	lop	-	210	250	mA	Po=200mW
Operating voltage	Vop	-	2.7	3.2	V	Po=200mW
Beam divergence Parallel to the junction	θ//	5	8	11	0	Po=200mW, FWHM
Beam divergence Perpendicular to the junction	θΤ	11	15	19	0	Po=200mW, FWHM
Lasing Wavelength	λр	668	671	674	nm	Po=200mW
Monitor current	Is	0.1	0.8	1.8	mA	Po=200mW, VR(PD)=5V

Typical Characteristic Curves









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