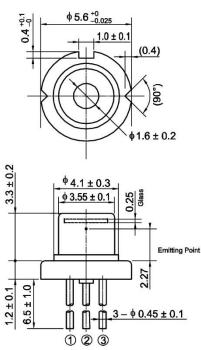
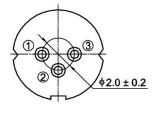
HL67221DG

680nm/210mW/Built-in monitor PD AlGaInP Laser Diode

Outline





(Unit: mm)

Features

- Visible light output: 680nm Typ.
- Optical output power: 210mW
- Low operating current: 210mA Typ.
- Built in monitor PD
- Operating temperature: +75°C
- Single transverse mode
- TE mode oscillation

Internal Circuit





Application

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

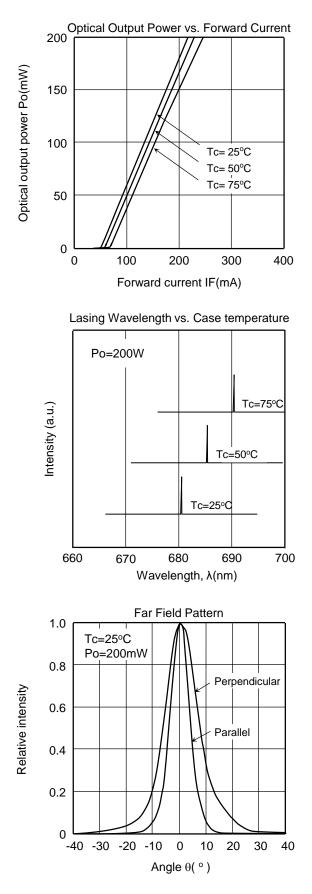
Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Ро	210	mW
LD Reverse Voltage	VR(LD)	2	V
PD Reverse Voltage	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	Тур	Мах	Unit	Test Condition
Threshold current	lth	-	50	80	mA	-
Operating current	Іор	-	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	θ⊥	11	15	19	O	Po=200mW, FWHM
Lasing Wavelength	λр	677	680	683	nm	Po=200mW
Monitor current	ls	0.1	0.8	1.8	mA	Po=200mW, V _{R(PD)} =5V

Typical Characteristic Curves



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