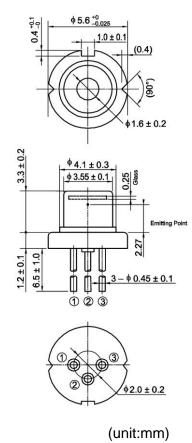
HL6366DG/67DG

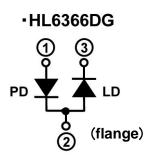
642nm/90mW

AlGaInP Laser Diode

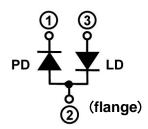
Outline



InternalCircuit



·HL6367DG



Features

- Visible light output: 642nm Typ.
- Optical output power: 80mW (CW)
- Single transverse mode
- Low operating current: 155mA Typ.
- Low operating voltage: 2.7V Max.
- Operating temperature: +50 °C
- TE mode oscillation

Application

- Laser module
- Light source of optical equipments



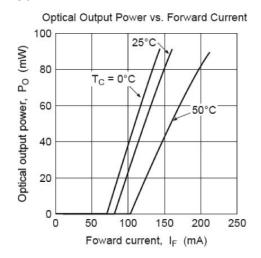
Absolute Maximum Ratings (Tc=25°C)

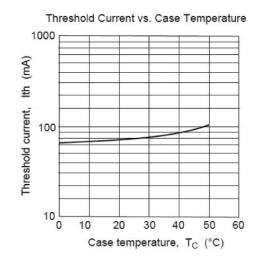
Item	Symbol	Ratings	Unit
Optical output power	Ро	90	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

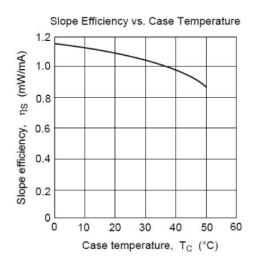
Optical and Electrical Characteristics (Tc=25°C)

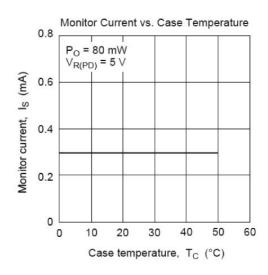
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	-	80	95	mA	-
Operating current	lop	-	155	175	mA	Po=80mW
Operating voltage	Vop	-	2.5	2.7	V	Po=80mW
Beam divergence Parallel to the junction	θ//	7	10	13	0	Po=80mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	16	21	24	0	Po=80mW, FWHM
Lasing Wavelength	λр	635	642	645	nm	Po=80mW
Monitor Current	Is	0.1	0.3	0.6	mA	Po=80mW, V _{R(PD)} =5V

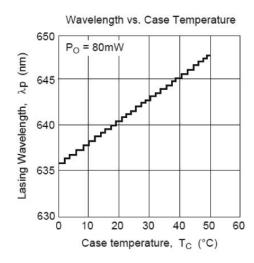
Typical Characteristic Curves

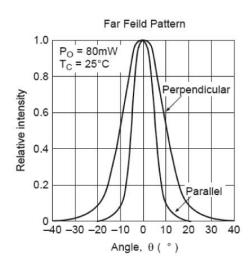












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