

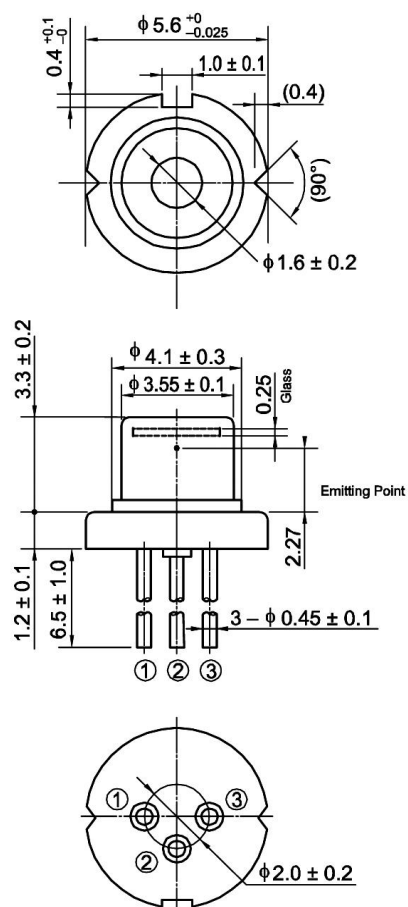
Data Sheet

HL6366DG/67DG

642nm / 90mW AlGaInP Laser Diode

USHIO

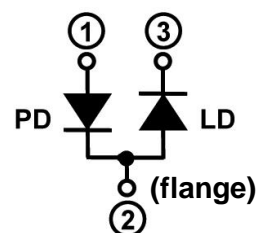
Outline



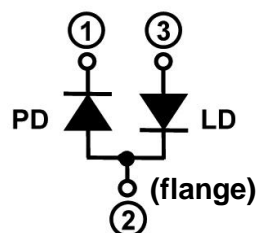
(unit:mm)

Internal Circuit

•HL6366DG



•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

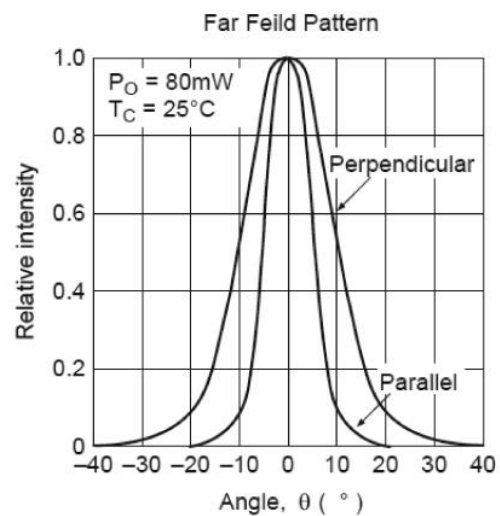
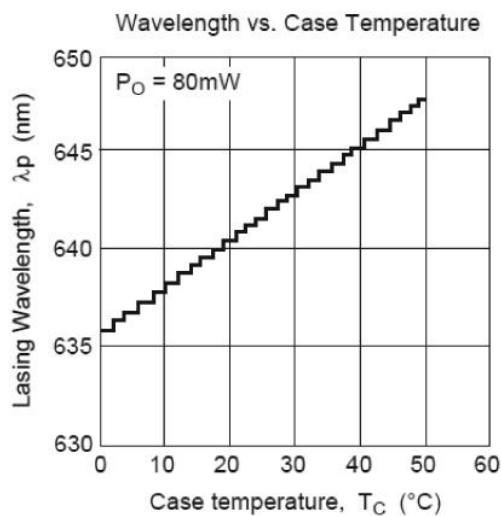
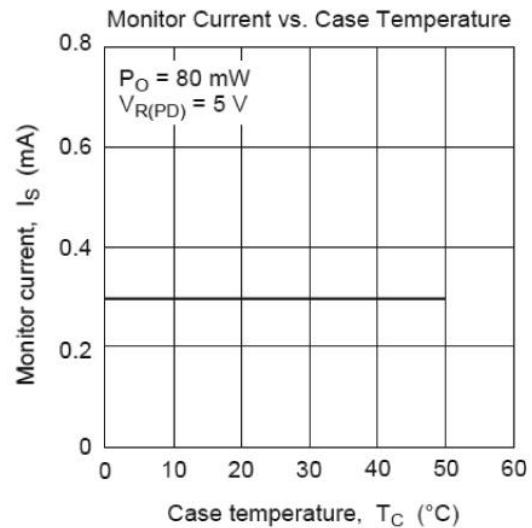
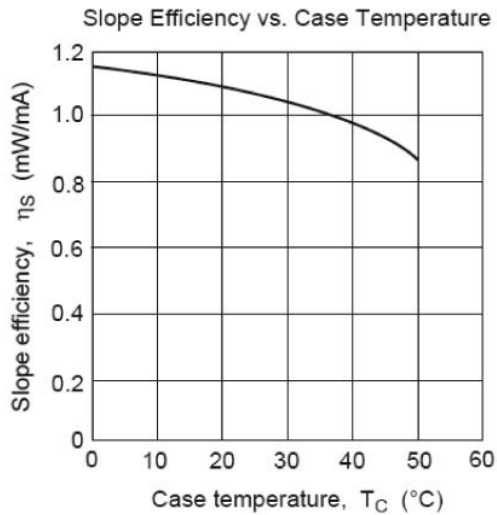
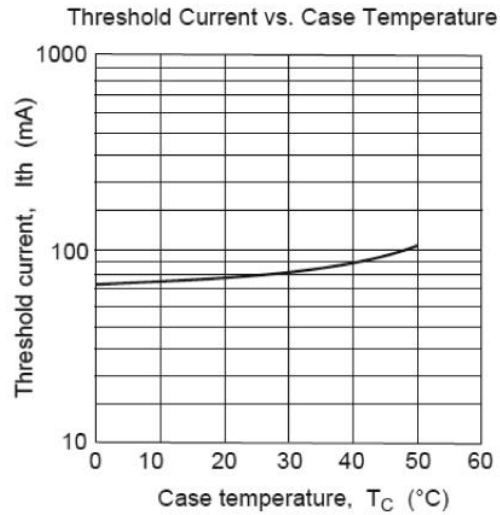
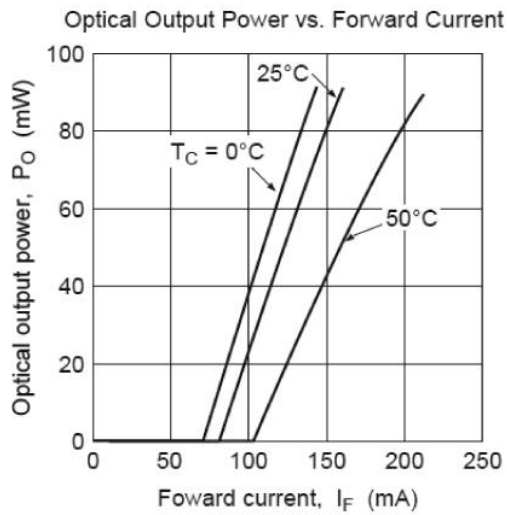
Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Po	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	Typ	Max	Unit	Test Condition
Threshold current	I _{th}	-	80	95	mA	-
Operating current	I _{op}	-	155	175	mA	Po=80mW
Operating voltage	V _{op}	-	2.5	2.7	V	Po=80mW
Beam divergence Parallel to the junction	θ _{//}	7	10	13	°	Po=80mW, FWHM
Beam divergence Perpendicular to the junction	θ _⊥	16	21	24	°	Po=80mW, FWHM
Lasing Wavelength	λ _p	635	642	645	nm	Po=80mW
Monitor Current	I _s	0.1	0.3	0.6	mA	Po=80mW, V _{R(PD)} =5V

Typical Characteristic Curves



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