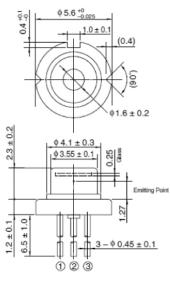
Data Sheet

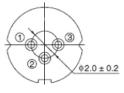
HL6748MG

670nm/10mW AlGaInP Laser Diode

USHID

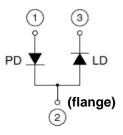
Outline





(Unit:mm)

Internal Circuit



Features

- Operation temperature: -10~+60°C •
- Optical output power: 10mW(CW)
- Visible lasing: 670nm Typ.
- Low operating voltage: 2.7V Max.
- Package: ϕ 5.6mm
- Single transverse mode
- TE mode oscillation

Application

- Laser beam printer
- Measurement •
- Sensing



Absolute Maximum Ratings (Tc=25°C)

ltem	Symbol	Ratings	Unit
Optical output power	Po	10	mW
LD Reverse Voltage	VR(LD)	2	V
PD Reverse Voltage	Vr(pd)	20	V
Operating Temperature	Topr	-10 ~ +60	°C
Storage Temperature	Tstg	-40 ~ +85	°C

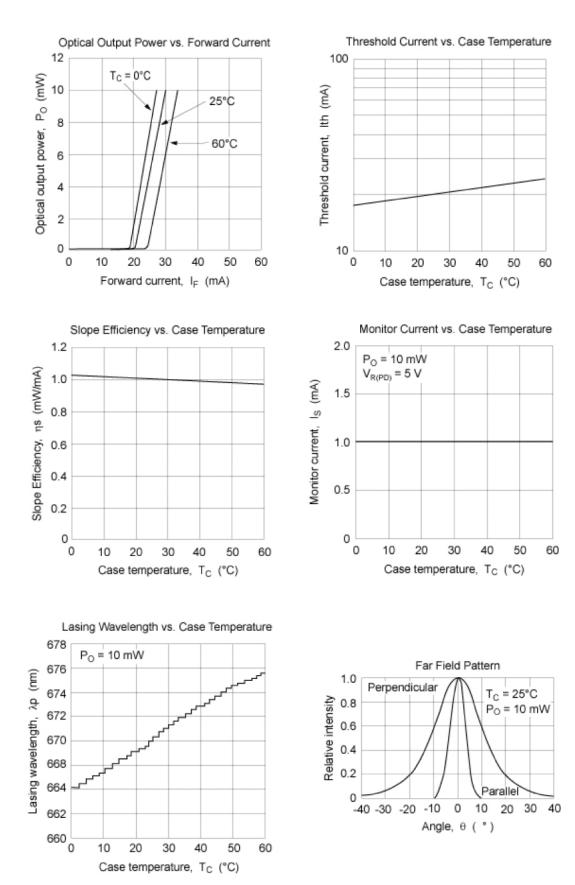
Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Тур	Мах	Unit	Test Condition
Threshold current	lth	-	20	30	mA	-
Operating current	Іор	-	30	45	mA	Po=10mW
Operating voltage	Vop	-	2.2	2.7	V	Po=10mW
Beam divergence Parallel to the junction	θ//	5	8	11	o	Po=10mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	18	25	30	o	Po=10mW, FWHM
Lasing Wavelength	λρ	660	670	680	nm	Po=10mW
Monitor Current	ls	0.6	1.0	1.8	mA	Po=10mW, V _{R(PD)} =5V

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Typical Characteristic Curves



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