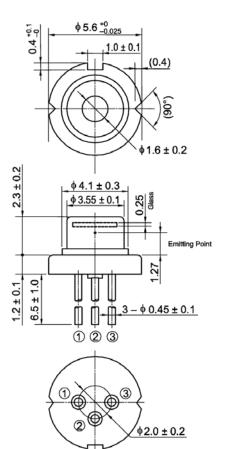
Data Sheet

HL6544FM

660nm/130mW AlGaInP Laser Diode

USHIO

Outline



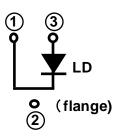
(Unit: mm)

Features

- Visible light output: 660nm Typ.
- Optical output power: 50mW (CW)
- Low operating current: 115mA Typ
- Operating temperature: +75°C
- Single transverse mode
- TE mode oscillation

Internal Circuit

• HL6544FM



Application

- Sensor application •
- Light source of optical equipments



Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Ро	130	mW
LD Reverse Voltage	VR(LD)	2	V
Operating Temperature	Topr	-10 ~ +75	°C
Storage Temperature	Tstg	-40 ~ +85	°C

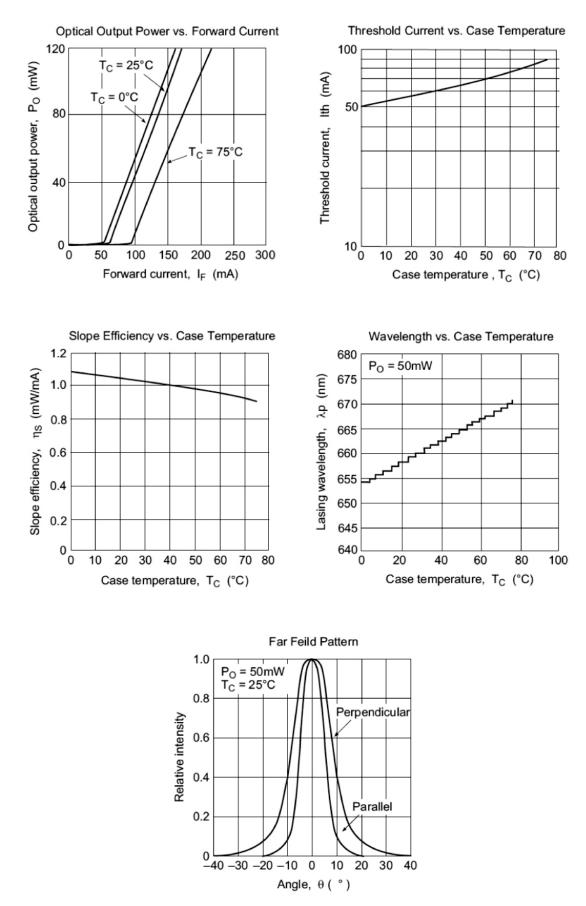
Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Тур	Мах	Unit	Test Condition
Threshold current	lth	-	60	75	mA	-
Operating current	Іор	-	115	135	mA	Po=50mW
Operating voltage	Vop	-	2.3	2.8	V	Po=50mW
Beam divergence Parallel to the junction	θ//	7	10	12	0	Po=50mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	15	17	21	0	Po=50mW, FWHM
Lasing Wavelength	λр	654	660	666	nm	Po=50mW

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Typical Characteristic Curves



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