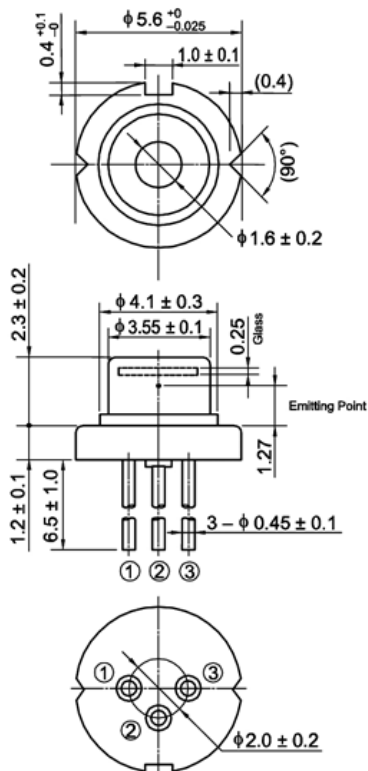


## HL6544FM

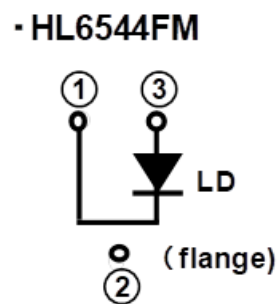
660nm / 130mW    AlGaInP Laser Diode

### Outline



(unit:mm)

### Internal Circuit



### 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

### Application

- Sensor application
- Light source of optical equipments

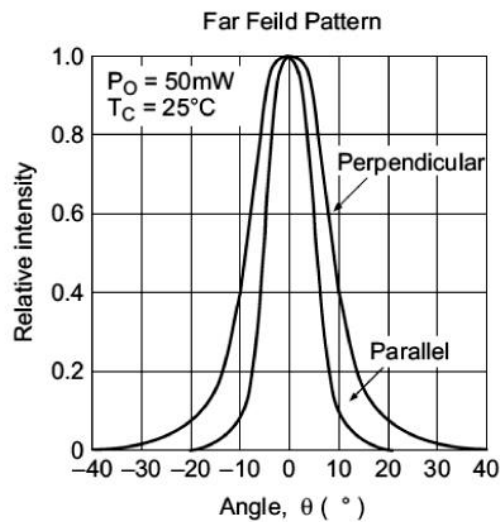
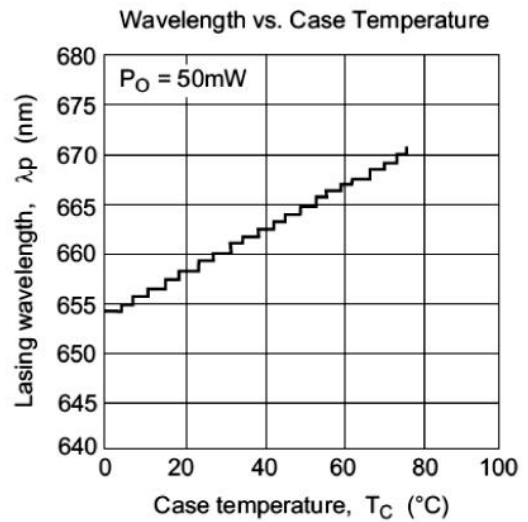
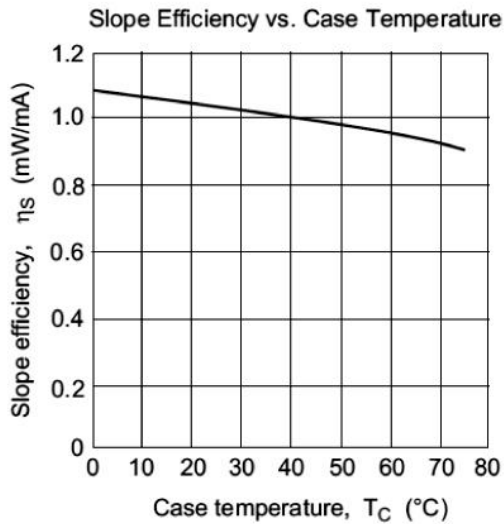
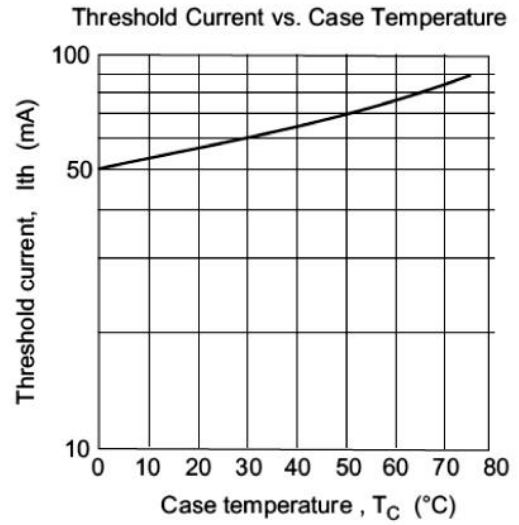
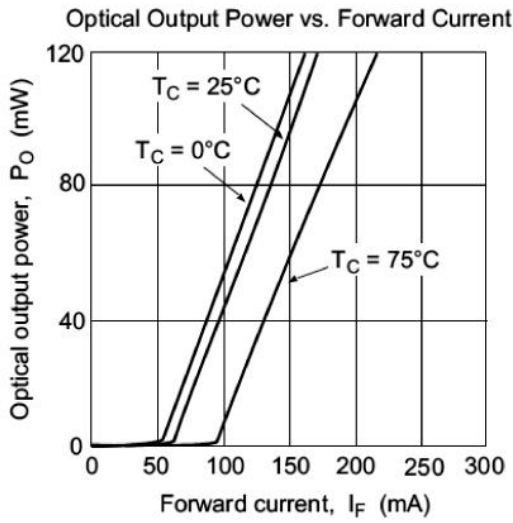
**Absolute Maximum Ratings (Tc=25°C)**

Item	Symbol	Ratings	Unit
Optical output power	Po	130	mW
LD Reverse Voltage	V <sub>R(LD)</sub>	2	V
Operating Temperature	Topr	-10 ~ +75	°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 <sub>th</sub>	-	60	75	mA	-
Operating current	I <sub>op</sub>	-	115	135	mA	Po=50mW
Operating voltage	V <sub>op</sub>	-	2.3	2.8	V	Po=50mW
Beam divergence Parallel to the junction	θ <sub>//</sub>	7	10	12	°	Po=50mW, FWHM
Beam divergence Perpendicular to the junction	θ <sub>⊥</sub>	15	17	21	°	Po=50mW, FWHM
Lasing Wavelength	λ <sub>p</sub>	654	660	666	nm	Po=50mW

## Typical Characteristic Curves



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2. This product (without violet laser diode) contains gallium arsenide (GaAs), which may seriously endanger your health even at very low doses. Please avoid treatment which may create GaAs powder or gas, such as disassembly or performing chemical experiments, when you handle the product. When disposing of the product, please follow the laws of your country and separate it from other waste such as industrial waste and household garbage.

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Product data and parameters may vary by user application and over time.

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