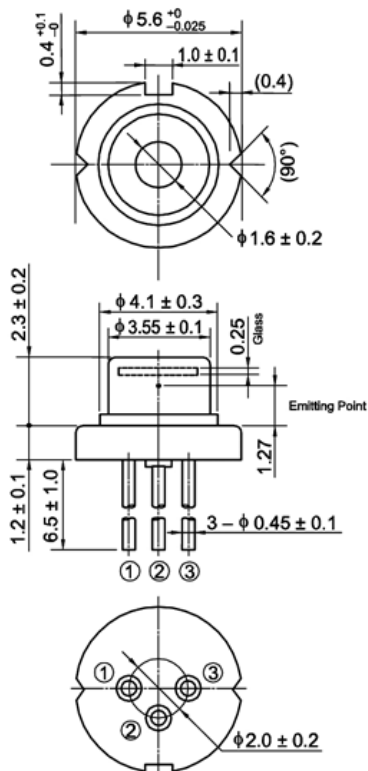


## HL6544FM

660nm / 130mW    AlGaInP Laser Diode

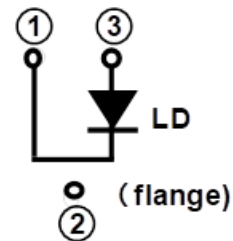
### Outline



(unit:mm)

### Internal Circuit

- HL6544FM



### 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

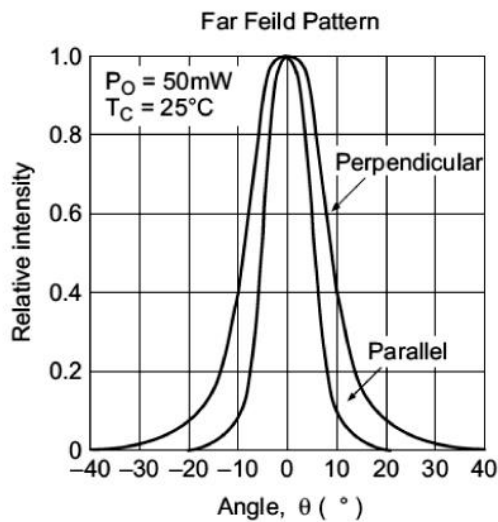
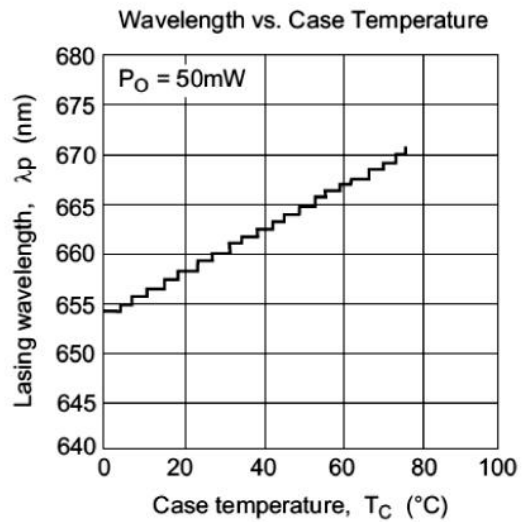
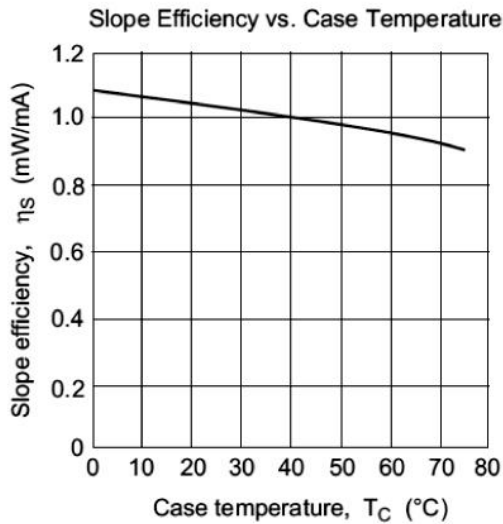
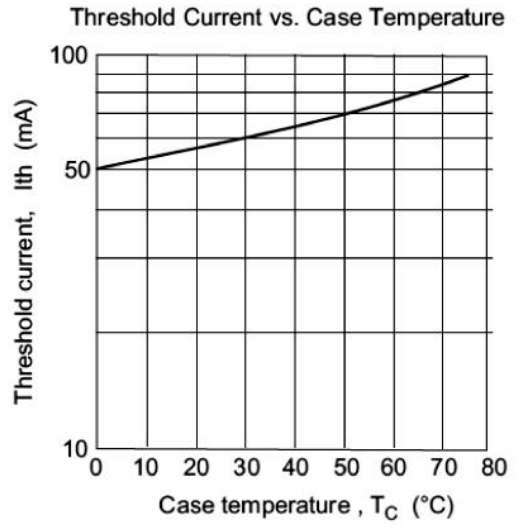
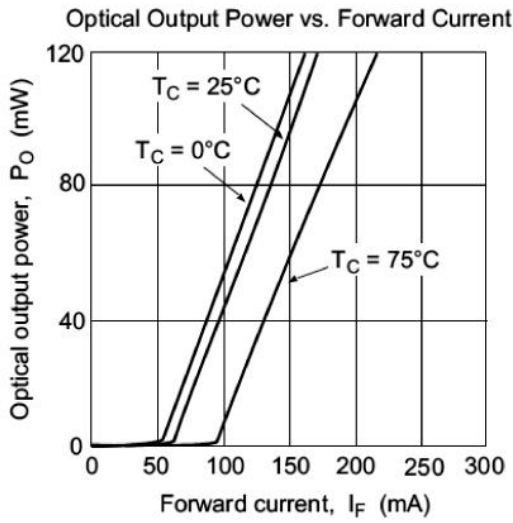
**Absolute Maximum Ratings (Tc=25°C)**

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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