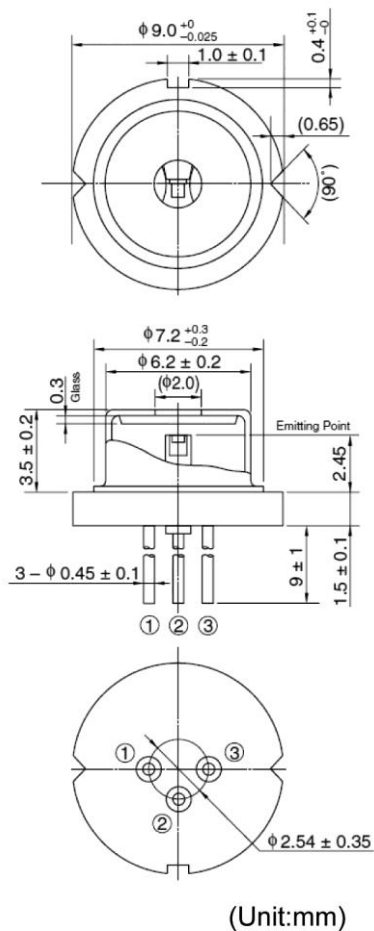


# HL6714G

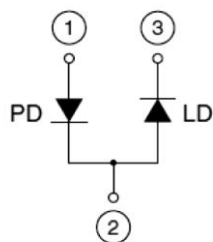
AlGaInP Laser Diode

670nm/10mW

## Outline



## Internal Circuit



## Features:

- Optical output power: 10mW (CW)
- Visible light output: 670nm Typ.
- Single transverse mode
- TE mode oscillation
- Built-in monitor photodiode

## Applications

- Laser beam printer
- Measurement
- Sensing

Absolute Maximum Ratings (T<sub>c</sub>=25°C)

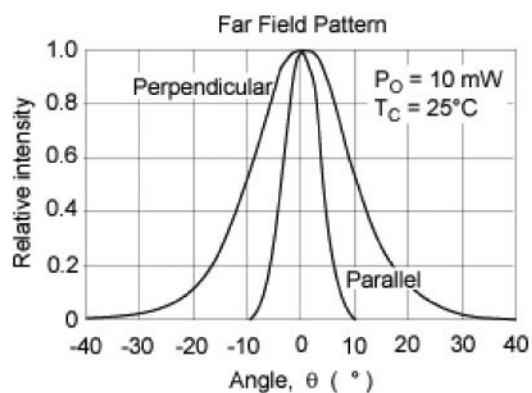
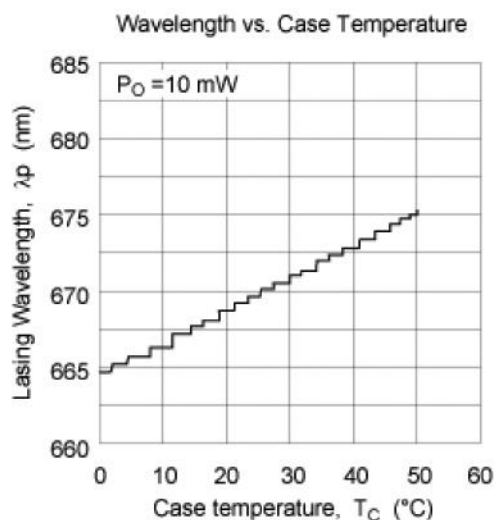
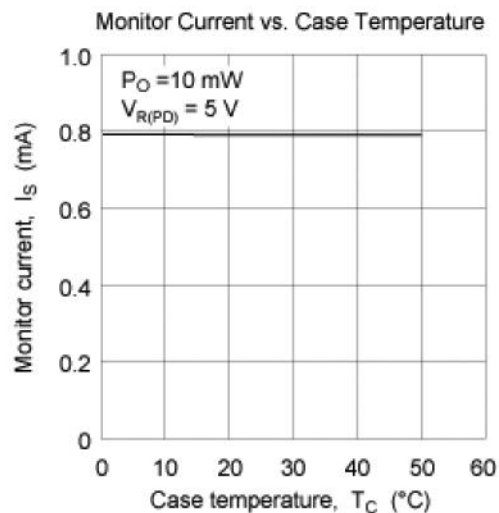
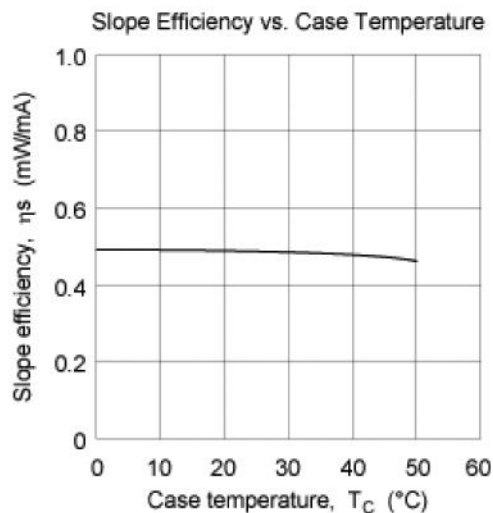
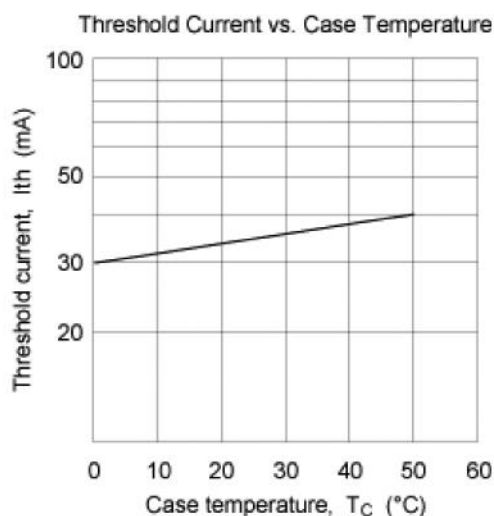
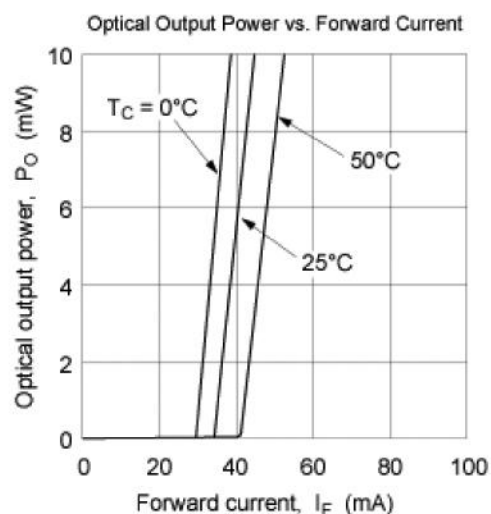
Item	Symbol	Ratings	Unit
Optical output power	P <sub>o</sub>	10	mW
Pulse optical output power	P <sub>o</sub> (pulse)	12*	mW
LD Reverse Voltage	V <sub>R(LD)</sub>	2	V
PD Reverse Voltage	V <sub>R(PD)</sub>	30	V
Operating Temperature	T <sub>opr</sub>	-10 ~ +50	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	°C

Note: Pulse condition : Pulse width 4μs , duty 50%

Optical and Electrical Characteristics (T<sub>c</sub>=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	I <sub>th</sub>	20	30	60	mA	-
Operating voltage	V <sub>op</sub>	-	-	2.7	V	P <sub>o</sub> =10mW
Slope efficiency	η <sub>s</sub>	0.3	0.5	0.8	mW/mA	6(mW)/(I <sub>(8mW)</sub> -I <sub>(2mW)</sub> )
Beam divergence Parallel to the junction	θ <sub>//</sub>	5	8	11	°	P <sub>o</sub> =10mW, FWHM
Beam divergence Perpendicular to the junction	θ <sub>⊥</sub>	18	22	30	°	P <sub>o</sub> =10mW, FWHM
Lasing Wavelength	λ <sub>p</sub>	660	670	680	nm	P <sub>o</sub> =10mW
Monitor current	I <sub>s</sub>	0.3	0.9	1.5	mA	P <sub>o</sub> =10mW, V <sub>R(PD)</sub> =5V

## 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.

## Contact Information

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