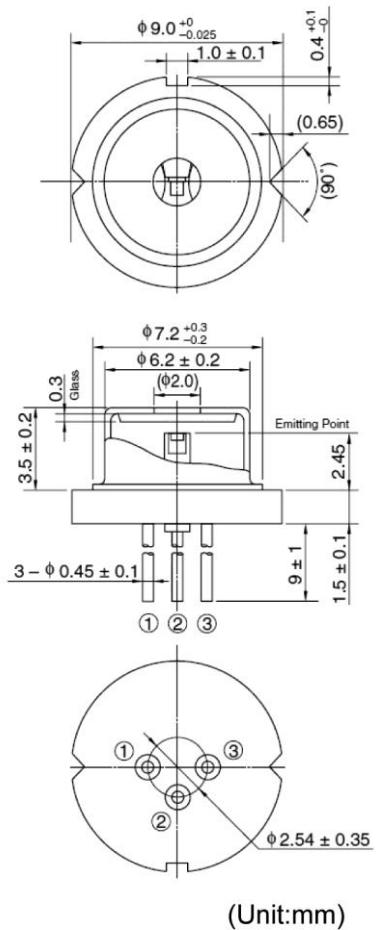


# HL6714G

AlGaInP Laser Diode

670nm/10mW

## Outline



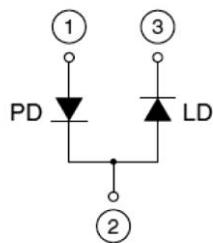
## Features:

- 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

## Internal Circuit



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

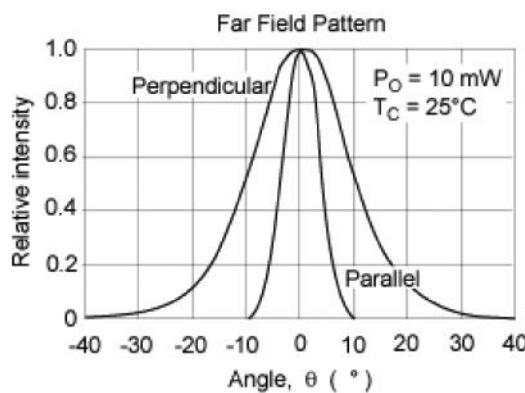
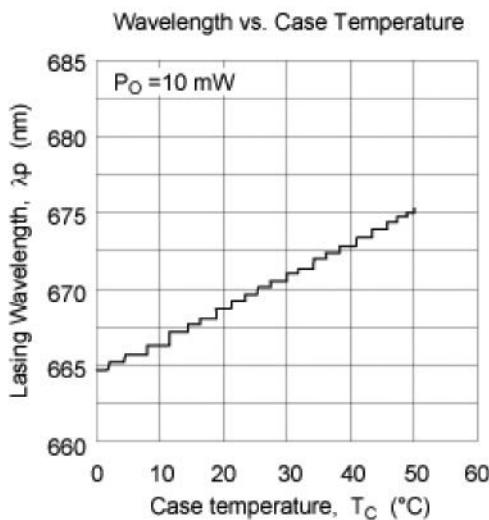
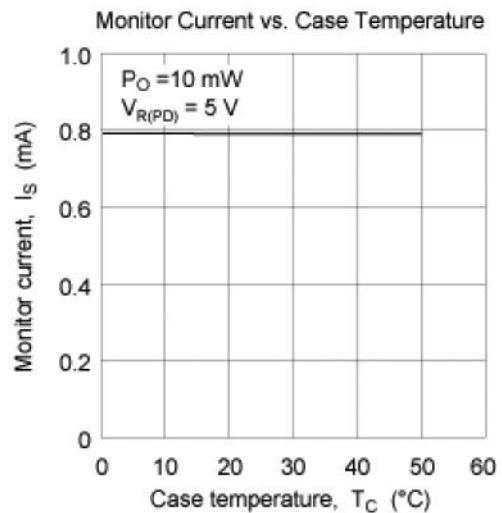
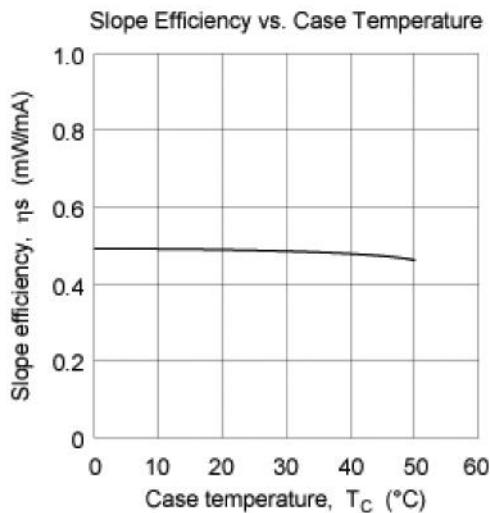
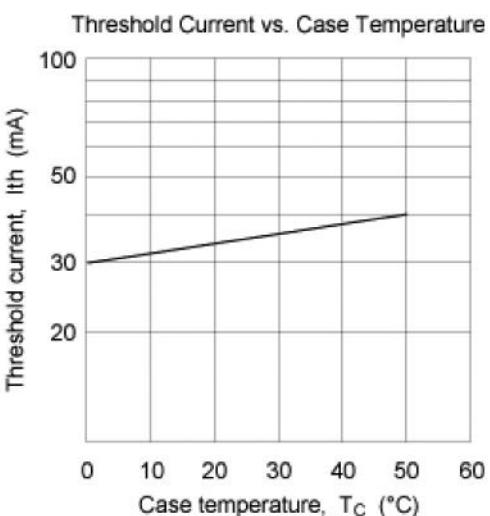
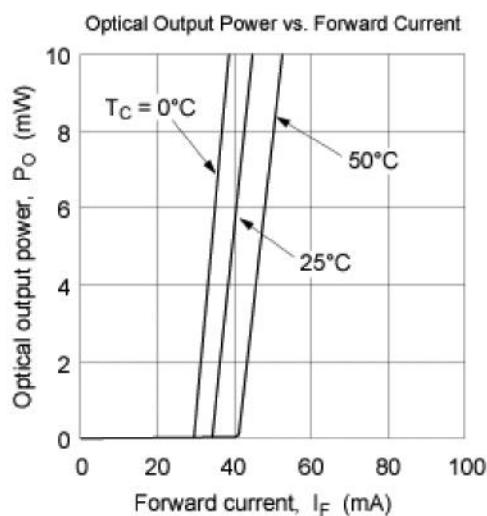
Item	Symbol	Ratings	Unit
Optical output power	Po	10	mW
Pulse optical output power	Po(pulse)	12*	mW
LD Reverse Voltage	V <sub>R(LD)</sub>	2	V
PD Reverse Voltage	V <sub>R(PD)</sub>	30	V
Operating Temperature	T <sub>opr</sub>	-10 ~ +50	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	°C

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

**Optical and Electrical Characteristics (Tc=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	Po=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	°	Po=10mW, FWHM
Beam divergence Perpendicular to the junction	θ <sub>⊥</sub>	18	22	30	°	Po=10mW, FWHM
Lasing Wavelength	λ <sub>p</sub>	660	670	680	nm	Po=10mW
Monitor current	I <sub>s</sub>	0.3	0.9	1.5	mA	Po=10mW, V <sub>R(PD)</sub> =5V

## Typical Characteristic Curves



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## Contact Information

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