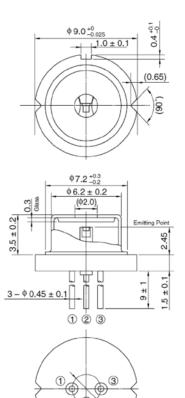
Data Sheet

# HL6714G

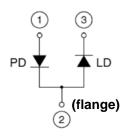
670nm/10mW AlGaInP Laser Diode

## USHID

## Outline



#### **Internal Circuit**



(Unit:mm)

¢2.54 ± 0.35

#### **Features**

2

- Operation temperature: -10~+50°C •
- Optical output power: 10mW(CW)
- Visible lasing: 670nm Typ.
- Low operating voltage: 2.7V Max.
- Single transverse mode
- TE mode oscillation

## **Application**

- Laser beam printer
- Measurement •
- Sensing



#### 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	VR(LD)	2	V
PD Reverse Voltage	Vr(pd)	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

\* Pulse condition: Pulse width $\leq 1\mu s$ , duty $\leq 50\%$ 

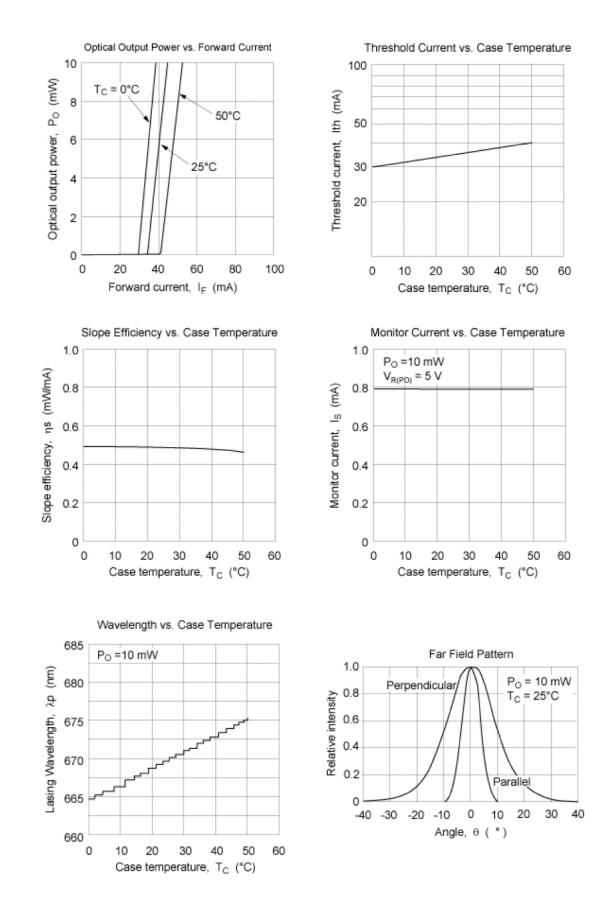
## **Optical and Electrical Characteristics (Tc=25°C)**

Parameter	Symbol	Min	Тур	Мах	Unit	Test Condition
Threshold current	lth	20	30	60	mA	-
Operating voltage	Vop	-	-	2.7	V	Po=10mW
Slope efficiency	ηs	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//	5	8	11	o	Po=10mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	18	22	30	o	Po=10mW, FWHM
Lasing Wavelength	λρ	660	670	680	nm	Po=10mW
Monitor Current	ls	0.3	0.9	1.5	mA	Po=10mW, V <sub>R(PD)</sub> =5V

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### **Typical Characteristic Curves**



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