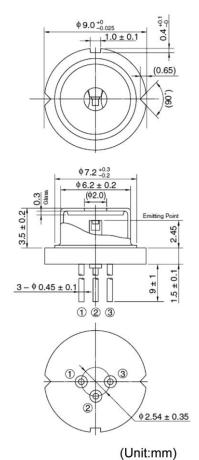
HL6714G

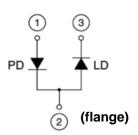
670nm / 10mW

AlGaInP Laser Diode

Outline



InternalCircuit



Features

- Operation temperature: -10~+50°C
- Optical output power: 10mW(CW)
- Visible lasing: 670nm Typ.
- Low operating voltage: 2.7V Max.
- Package: φ9mm
- Single transverse mode
- TE mode oscillation

Application

- Laser beam printer
- Measurement
- Sensing

Absolute Maximum Ratings (Tc=25°C)

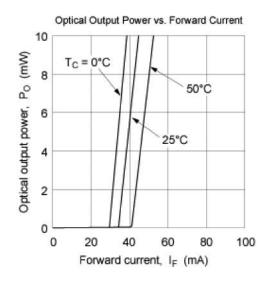
Item	Symbol	Ratings	Unit
Optical output power	Po	10	mW
Pulse optical output power	Po(pulse)	12*	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

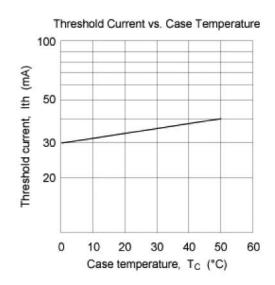
^{*} Pulse condition: Pulse width≤1μs, duty≤50%

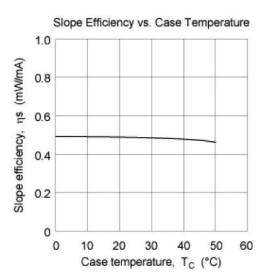
Optical and Electrical Characteristics (Tc=25°C)

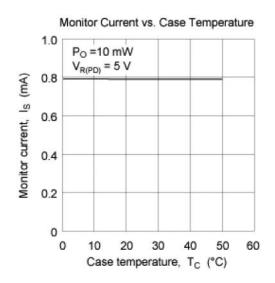
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	20	30	60	mA	-
Operating voltage	Vop	-	-	2.7	V	Po=10mW
Slope efficiency	ηѕ	0.3	0.5	0.8	mW/mA	6(mW)/(I _(8mW) -I _(2mW))
Beam divergence Parallel to the junction	θ//	5	8	11	o	Po=10mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	18	22	30	o	Po=10mW, FWHM
Lasing Wavelength	λр	660	670	680	nm	Po=10mW
Monitor Current	Is	0.3	0.9	1.5	mA	Po=10mW, V _{R(PD)} =5V

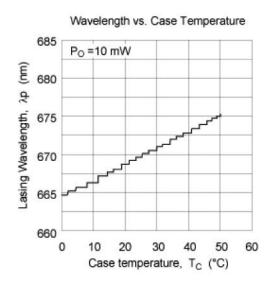
Typical Characteristic Curves

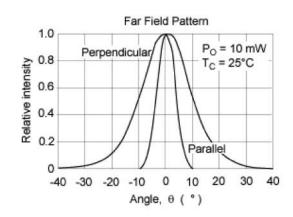














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