



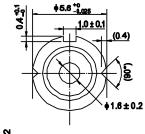
Data Sheet

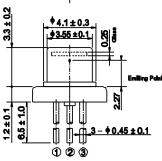
HL65014DG

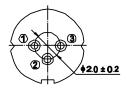
647~650nm/150mW

AlGaInP Laser Diode

Outline



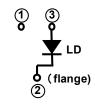




(Unit: mm)

Internal Circuit

- HL65014DG



Features

- Visible light output: 647~650nm
- High Optical output power: 150mW
- Operating temperature: +40°C
- Small package: \$\phi 5.6mm
- Single transverse mode
- TE mode oscillation

Application

- Laser module
- Light source of optical equipments

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Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Ро	150	mW
LD Reverse Voltage	V _{R(LD)}	2	V
Operating Temperature	Topr	-10 ~ +40	°C
Storage Temperature	Tstg	-40 ~ +85	°C

Note: Operating temperature is defined by Case temperature "To". High increase in temperature of LD chip itself is expected during operation due to high current density. Thus, without proper heat dissipation, it is observed that no specific output power is achieved or it results to LD degradation. It is advised that sufficient measure of heat dissipation should be taken so that LD's maximum operating temperature is not exceeded during actual operation.

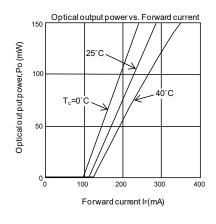
Optical and Electrical Characteristics (Tc=25°C)

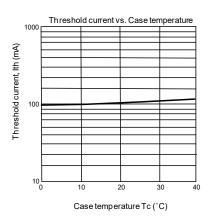
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	-	110	140	mA	-
Operating current	lop	-	280	350	mA	Po=150mW
Operating voltage	Vop	-	2.6	3.0	V	Po=150mW
Beam divergence Parallel to the junction	θ//	6	9	13	0	Po=150mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	13	17	22	0	Po=150mW, FWHM
Lasing Wavelength	λр	647	-	650	nm	Po=150mW

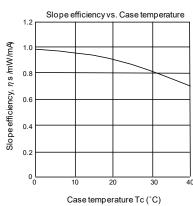
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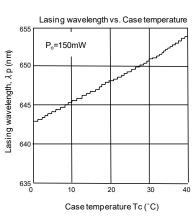


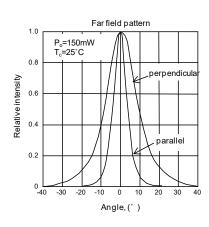
Typical Characteristic Curves











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