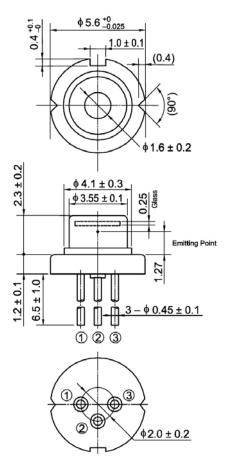
Data Sheet

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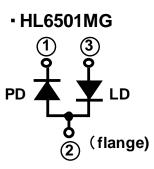
658nm/35mW AlGaInP Laser Diode

USHID





Internal Circuit



(Unit: mm)

Features

- Visible light output: 658nm Typ.
- Optical output power: 30mW (CW)
- Operating temperature: +60°C
- Built-in monitor diode
- Single transverse mode
- TE mode oscillation

Application

- Laser leveler •
- Laser scanner
- Light source of optical equipments •



Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Po	35	mW
Pulse optical output power	Po _(pulse)	50	mW
LD Reverse Voltage	VR(LD)	2	V
PD Reverse Voltage	Vr(pd)	30	V
Operating Temperature	Topr	-10 ~ +60	°C
Storage Temperature	Tstg	-40 ~ +85	°C

Note: Pulse condition: Pulse width = 30nsec, duty = 35%

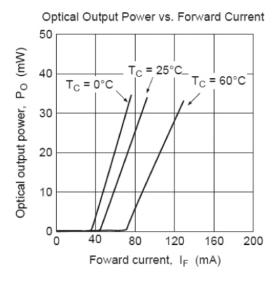
Optical and Electrical Characteristics (Tc=25°C)

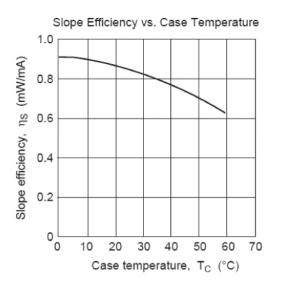
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	lth	30	45	70	mA	-
Operating current	Іор	70	85	120	mA	Po=30mW
Operating voltage	Vop	2.1	2.6	3.0	V	Po=30mW
Beam divergence Parallel to the junction	θ//	7	8.5	10.5	0	Po=30mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	18	22	26	0	Po=30mW, FWHM
Lasing Wavelength	λρ	645	658	665	nm	Po=30mW
Monitor Current	ls	0.05	0.3	1.5	mA	Po=30mW, VR(PD)=5V

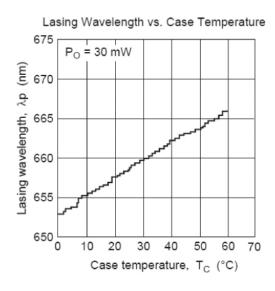
Data Sheet HL6501MG Rev0. Oct. 28. 2014

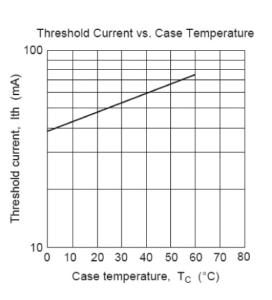


Typical Characteristic Curves

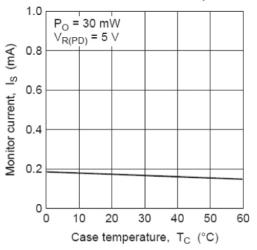


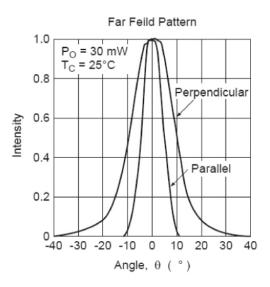






Monitor Current vs. Case Temperature







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5. This product is not designed to be radiation resistant.

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7.Contact our sales office for any questions regarding this document or UOS products.

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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.

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Data Sheet HL6501MG Rev0. Oct. 28. 2014