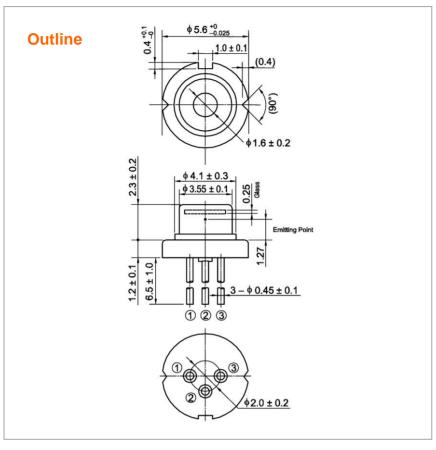


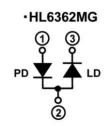
HL6362MG/63MG

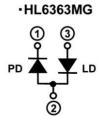
AIGaInP Laser Diode

640nm/45mW



Internal Circuit





Features:

- Visible light output: 640nm Typ.
- Optical output power: 45 mW (CW)
- Single transverse mode
- Low operating current: 90mA Typ.
- Low operating voltage: 2.6V Max.
- Operating temperature: +50°C
- TE mode oscillation

Applications

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



Absolute Maximum Ratings (Tc=25°C)

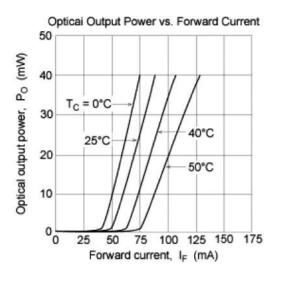
Item	Symbol	Ratings	Unit
Optical output power	Po	45	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

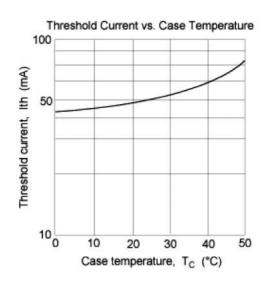
Optical and Electrical Characteristics (Tc=25°C)

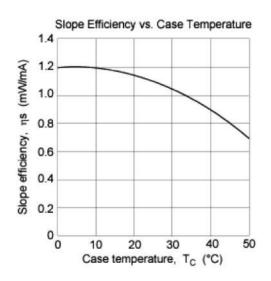
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	lth	-	45	60	mA	-
Operating current	lop	-	90	110	mA	Po=40mW
Operating voltage	Vop	-	2.4	2.6	V	Po=40mW
Beam divergence Parallel to the junction	θ//	7	10	13	o	Po=40mW
Beam divergence Perpendicular to the junction	θΤ	16	21	24	o	Po=40mW
Lasing Wavelength	λр	-	640	643	nm	Po=40mW
Monitor current	ls	0.15	0.30	0.60	mA	Po=40mW, V _{R(PD)} =5V

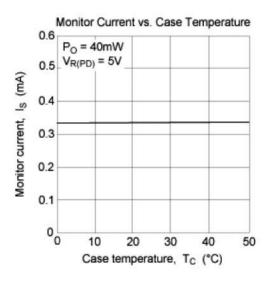


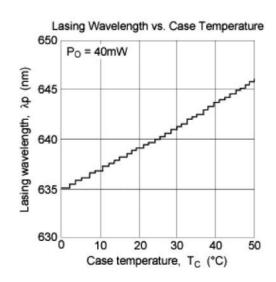
Typical Characteristic Curves

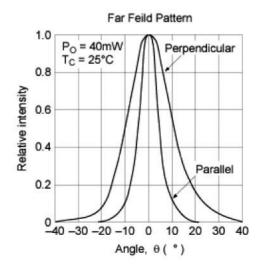












Data Sheet

HL6362MG/63MG



Cautions

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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.

Contact Information

www.oclaro.com

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Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. HL6362MG/63MG Rev.2 Mar. 08, 2013

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Apr. 10, 2013

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Declaration of Conformity to EU RoHS

Products listed below that are manufactured by Oclaro Japan, Inc. are in compliance with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (also known as "RoHS Recast"). Specifically, products manufactured do not contain the substances listed in the table below in concentrations greater than the listed maximum value.

Substance	Maximum Limit (ppm)
Lead (Pb)	1000
Cadmium (Cd)	100
Mercury (Hg)	1000
Hexavalent Chromium (Cr6+)	1000
Poly Brominated Biphenyls (PBB)	1000
Poly Brominated Diphenyl ethers (PBDE)	1000

Part Number:

- -Laser Diodes
 - -Products which include "-A" after 4 numeric characters in type name : ex.HLxxxxMG-A, HLxxxxDG-A
 - -Products which include 5 numeric characters in type name : ex.HL $\underline{xxxxx}DG, HL \underline{xxxxx}MG$

Note) The products listed above take advantage of the following exemption:

Lead compounds are contained in low melting glass which is used to fix window glass, however this lead is exempted from EU RoHS directive's requirements as "lead in glass of electronic components (7(c)-1)".

-Infra Red Emitting Diodes

All products are EU RoHS compliance products. : ex. HExxxxxx

Signature: X. Ando

Name (printed): Kazunori Ando

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