
HL6360MG/61MG

Low Operating Current Visible Laser Diode



ODE-208-010 (Z)
Target specification

Rev.0
Apr. 2005

Description

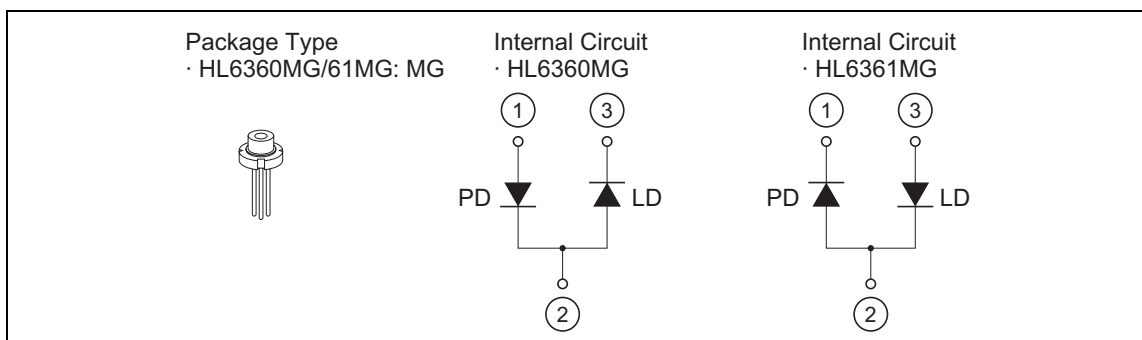
The HL6360MG/61MG are 0.63 μm band AlGaInP laser diodes with a multi-quantum well (MQW) structure. They are suitable as light sources for laser levelers, laser scanners and optical equipment for measurement.

Application

- Laser leveler
- Laser scanner
- Measurement

Features

- Visible light output : 639 nm Typ
- Single longitudinal mode
- Optical output power : 20 mW CW
- Low operating current : 55 mA Typ
- Low operating voltage : 2.5 V Max
- Operating temperature : +50°C
- TM mode oscillation



Note: This product is under development. Therefore, the specification in this document is subject to change without notice.

HL6360MG/61MG

Absolute Maximum Ratings

($T_C = 25^\circ\text{C}$)

Item	Symbol	Value	Unit
Optical output power	P_O	25	mW
LD reverse voltage	$V_{R(LD)}$	2	V
PD reverse voltage	$V_{R(PD)}$	30	V
Operating temperature	T_{opr}	-10 to +50	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +85	$^\circ\text{C}$

Optical and Electrical Characteristics

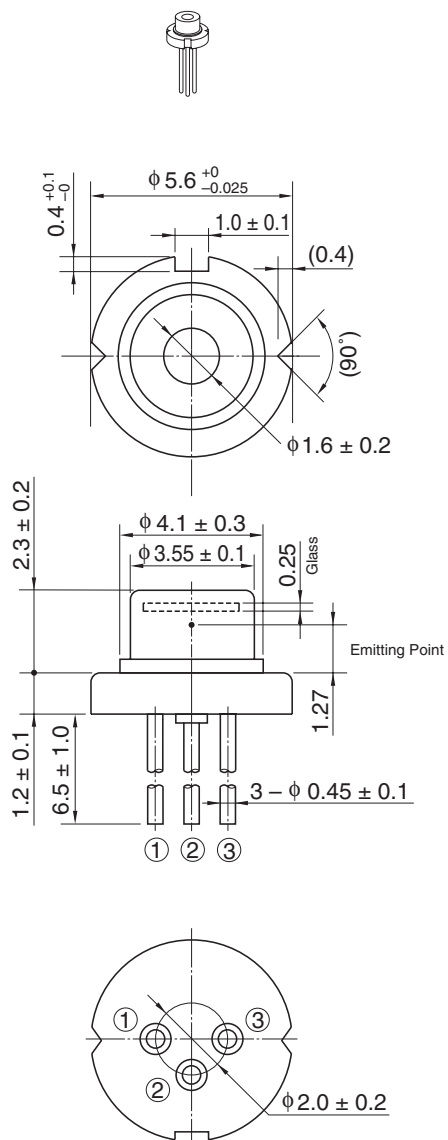
($T_C = 25^\circ\text{C}$)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	I_{th}	—	30	40	mA	—
Operating current	I_{op}	—	55	70	mA	$P_O = 20\text{ mW}$
Operating voltage	V_{OP}	—	2.3	2.5	V	$P_O = 20\text{ mW}$
Beam divergence parallel to the junction	$\theta_{//}$	6	8	10	$^\circ$	$P_O = 20\text{ mW}$
Beam divergence perpendicular to the junction	θ_{\perp}	25	30	35	$^\circ$	$P_O = 20\text{ mW}$
Lasing wavelength	λ_p	630	639	645	nm	$P_O = 20\text{ mW}$
Monitor current	I_s	—	0.5	—	mA	$P_O = 20\text{ mW}$ $V_{R(PD)} = 5\text{ V}$

Package Dimensions

As of July, 2002

Unit: mm



OPJ Code	LD/MG
JEDEC	—
JEITA	—
Mass (reference value)	0.3 g

HL6360MG/61MG

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1. The laser light is harmful to human body especially to eye no matter what directly or indirectly. The laser beam shall be observed or adjusted through infrared camera or equivalent.
2. This product 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.
3. Definition of items shown in this CAS is in accordance with that shown in Opto Device Databook issued by OPJ unless otherwise specified.

Sales Offices



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Japan (Japanese) <http://japan.opnext.com/optodevice/>
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