

HL6397MG/98MG

High Temperature Low Operating Current Visible Laser Diode

ODE2067-00 (T) Target Specification Rev.0 Dec. 09, 2008

Description

The HL6397MG/98MG are $0.63 \mu m$ 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.

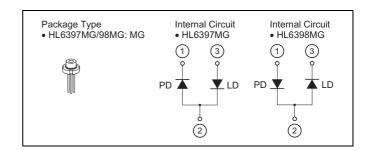
Features

• Visible light output: 639 nm Typ

Single longitudinal mode

Optical output power: 20 mW CW
Low operating current: 65 mA Typ
Low operating voltage: 2.5 V Max
Operating temperature: +60°C

• TE mode oscillation



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Optical output power	Po	25	mW
LD reverse voltage	$V_{R(LD)}$	2	V
PD reverse voltage	$V_{R(PD)}$	30	V
Operating temperature	Topr	-10 to +60	°C
Storage temperature	Tstg	-40 to +85	°C

Optical and Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	_	45	60	mA	_
Operating current	I _{OP}	_	65	80	mA	P _O = 20 mW
Operating voltage	V _{OP}	_	2.3	2.5	V	P _O = 20 mW
Beam divergence parallel to the junction	θ//	6	9	12	٥	P _O = 20 mW
Beam divergence perpendicular to the junction	θΤ	16	21	24	0	P _O = 20 mW
Lasing wavelength	λр	630	639	643	nm	P _O = 20 mW
Monitor current	I _S	0.1	0.2	0.4	mA	$P_{O} = 20 \text{ mW}, V_{R(PD)} = 5 \text{ V}$

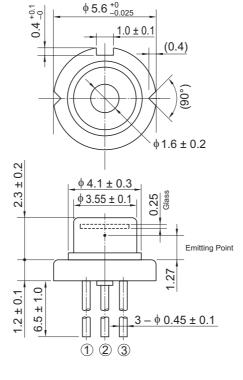


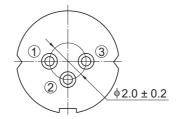
Package Dimensions

Unit: mm



 $\phi~5.6~^{+0}_{-0.025}$





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

Cautions

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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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