

# **HL6395MG/96MG**

# High Temperature Low Operating Current Visible Laser Diode

ODE2066-01 (T) Target Specification Rev.1 Nov. 17, 2008

## **Description**

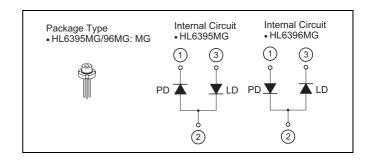
The HL6395MG/96MG are  $0.63~\mu m$  band AlGaInP laser diodes with a multi-quantum well (MQW) structure. They are suitable as light sources for laser levelers and optical equipment for measurement.

#### **Features**

Optical output power: 10 mW CW
Visible light output: 639 nm Typ
Single longitudinal mode

Low operating current: 55 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	12	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 <sub>OP</sub>	_	55	70	mA	P <sub>O</sub> = 10 mW
Operating voltage	V <sub>OP</sub>	_	2.3	2.5	V	P <sub>O</sub> = 10 mW
Lasing wavelength	λρ	_	639	643	nm	P <sub>O</sub> = 10 mW
Beam divergence parallel to the junction	θ//	6	9	12	٥	P <sub>O</sub> = 10 mW
Beam divergence perpendicular to the junction	θΤ	16	21	24	٥	P <sub>O</sub> = 10 mW
Monitor current	Is	0.04	0.07	0.15	mA	P <sub>O</sub> = 10 mW , V <sub>R(PD)</sub> = 5 V

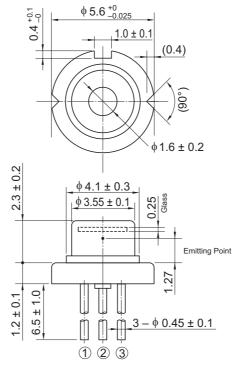
Note: This type is under development. Therefore, this data sheet may be changed without any notice.

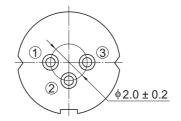


# **Package Dimensions**

As of July, 2002 Unit: mm







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

#### **Cautions**

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- 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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