

# HL6756MG AlGaInP Laser Diode

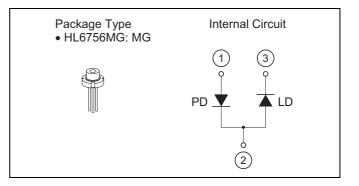
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#### Description

The HL6756MG is a 0.67  $\mu$ m band AlGaInP laser diode with a multi-quantum well (MQW) structure. It is suitable as a light source for laser beam printers and other types of optical equipment.

#### Features

- Visible light output: 670 nm Typ
- Single longitudinal mode
- Optical output power: 15 mW CW
- Low operating current: 35 mA Typ
- Low operating voltage: 2.3 V Typ



#### **Absolute Maximum Ratings**

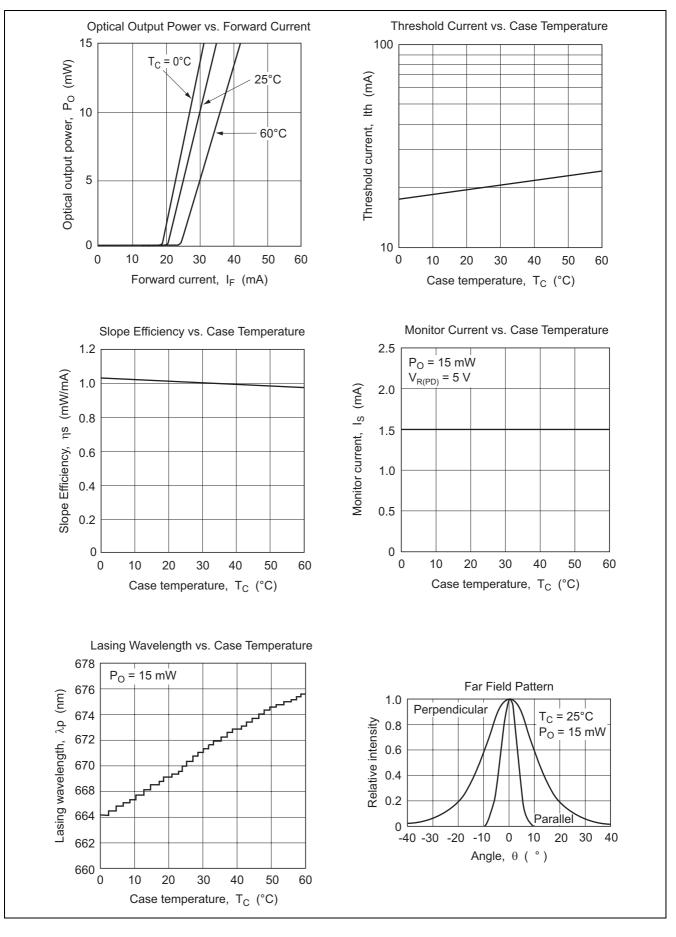
			$(T_{C} = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Optical output power	Po	15	mW
LD reverse voltage	V <sub>R(LD)</sub>	2	V
PD reverse voltage	V <sub>R(PD)</sub>	20	V
Operating temperature	Topr	-10 to +60	°C
Storage temperature	Tstg	-40 to +85	°C

### **Optical and Electrical Characteristics**

						$(T_{\rm C}=25^{\circ}{\rm C})$
Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Threshold current	lth	—	20	30	mA	—
LD operating current	I <sub>OP</sub>	—	35	45	mA	P <sub>o</sub> = 15 mW
LD operating voltage	V <sub>OP</sub>	—	2.3	2.7	V	P <sub>o</sub> = 15 mW
Beam divergence parallel to the junction	θ//	5	8	11	o	P <sub>o</sub> = 15 mW, FWHM
Beam divergence parpendicular to the junction	θ⊥	20	24	28	o	P <sub>o</sub> = 15 mW, FWHM
Lasing wavelength	λр	660	670	680	nm	P <sub>o</sub> = 15 mW
Monitor current	ls	0.5	1.5	2.5	mA	$P_O = 15 \text{ mW}, V_{R(PD)} = 5 \text{ V}$

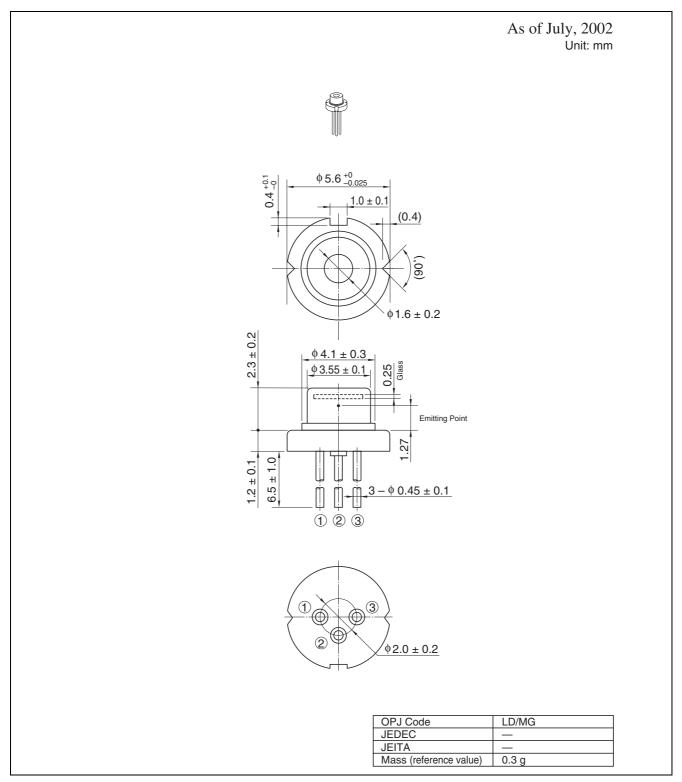


## **Typical Characteristic Curves**





# **Package Dimensions**





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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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