



## Product Status Information

HL6756MG-A is Not Recommended for New Design (NRND) status. Please refer to successor product below for new designs and adoptions.

NRND Product	Successor Product
HL6756MG-A	HL67192MG
<a href="https://www.ushio.co.jp/jp/products/product_file/file/UIE_DS_HL6756MG.pdf">https://www.ushio.co.jp/jp/products/product_file/file/UIE_DS_HL6756MG.pdf</a>	<a href="https://www.ushio.co.jp/jp/products/product_file/file/UIE_DS_HL67192MG.pdf">https://www.ushio.co.jp/jp/products/product_file/file/UIE_DS_HL67192MG.pdf</a>

For the “Product Life Cycle” definition, please refer to below link.

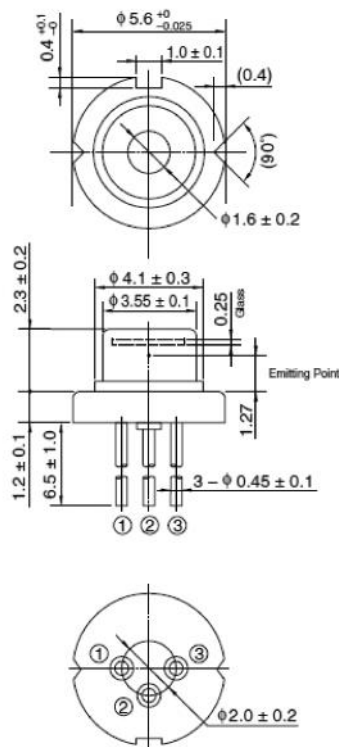
Japanese; <https://www.ushio.co.jp/jp/laser/news/500958.html>

English; <https://www.ushio.co.jp/en/laser/news/500958.html>

## HL6756MG-A

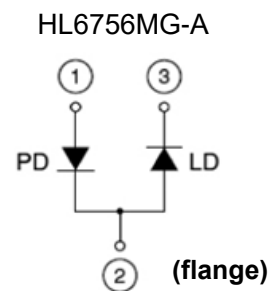
670nm / 15mW AlGaInP Laser Diode

### Outline



(Unit:mm)

### Internal Circuit



### Features

- Operation temperature: -10~+60°C
- Optical output power: 15mW(CW)
- Visible lasing: 670nm Typ.
- Low operating voltage: 2.7V Max.
- Package:  $\phi 5.6$ mm
- Single transverse mode
- TE mode oscillation

### Application

- Laser beam printer
- Measurement
- Sensing

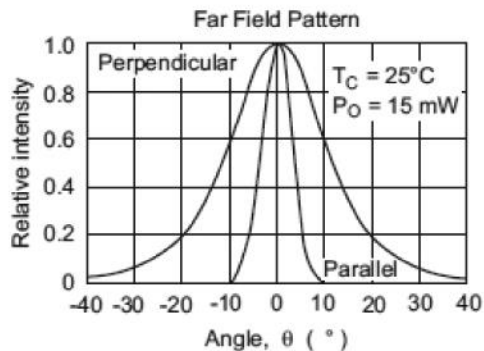
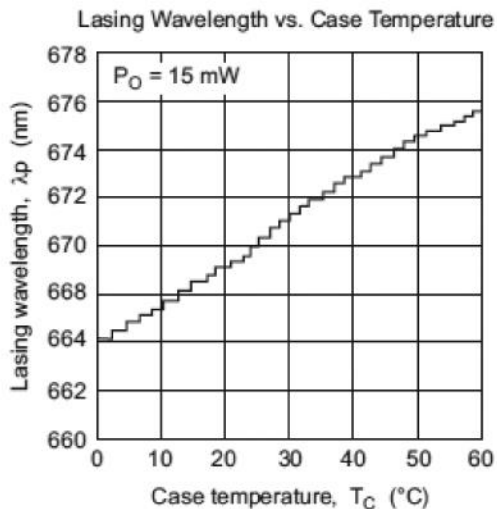
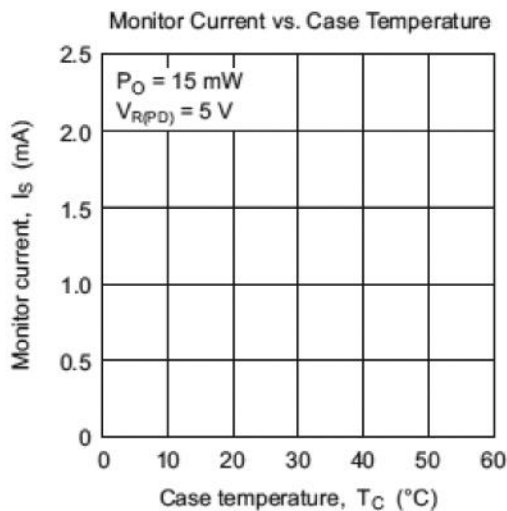
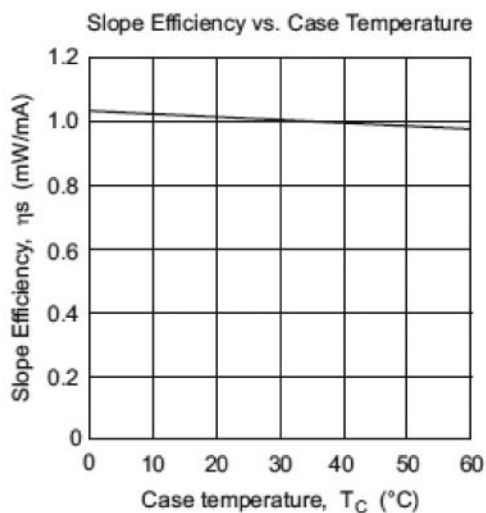
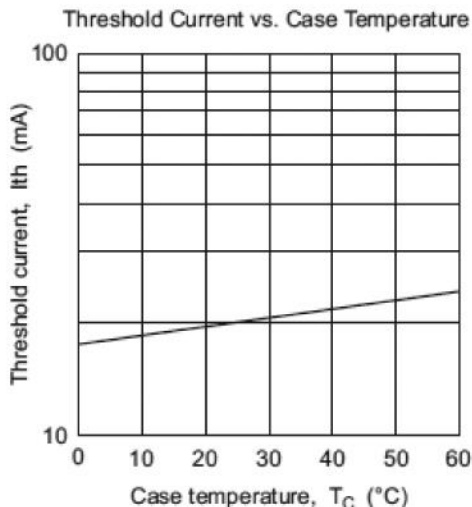
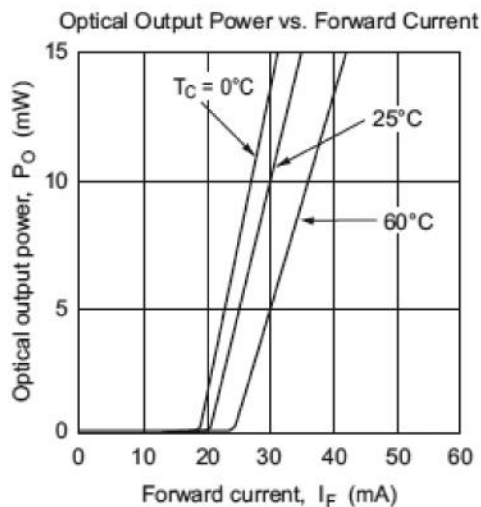
**Absolute Maximum Ratings (Tc=25°C)**

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	T <sub>opr</sub>	-10 ~ +60	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	°C

**Optical and Electrical Characteristics (Tc=25°C)**

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	I <sub>th</sub>	-	20	30	mA	-
Operating current	I <sub>op</sub>	-	35	45	mA	Po=15mW
Operating voltage	V <sub>op</sub>	-	2.3	2.7	V	Po=15mW
Beam divergence Parallel to the junction	θ <sub>//</sub>	5	8	11	°	Po=15mW, FWHM
Beam divergence Perpendicular to the junction	θ <sub>⊥</sub>	20	24	28	°	Po=15mW, FWHM
Lasing Wavelength	λ <sub>p</sub>	660	670	680	nm	Po=15mW
Monitor Current	I <sub>s</sub>	0.5	1.5	2.5	mA	Po=15mW, V <sub>R(PD)</sub> =5V

### Typical Characteristic Curves



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