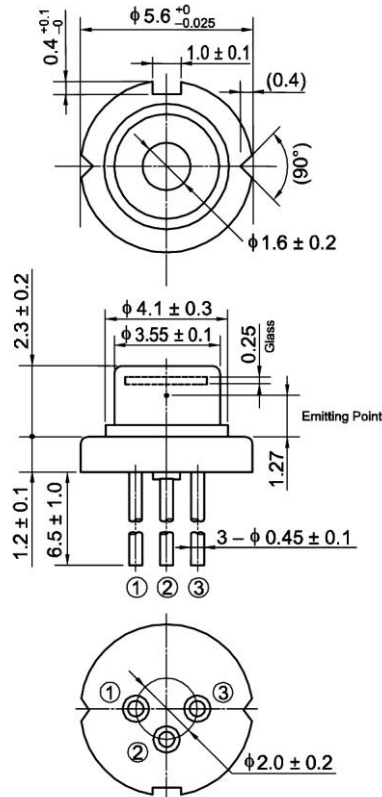


HL6358MG/59MG

AlGaInP Laser Diode

639nm/12mW

Outline



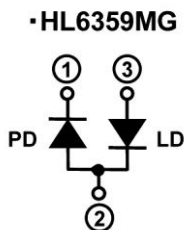
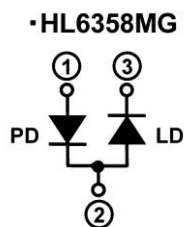
Features:

- Visible light output: 639 nm Typ.
- Optical output power: 10 mW (CW)
- Single transverse mode
- Low operating current: 40 mA Typ.
- Low operating voltage: 2.5 V Max.
- Operating temperature: +50°C
- TE mode oscillation

Applications

- Laser leveler
- Laser scanner
- Light source of optical equipments

Internal Circuit



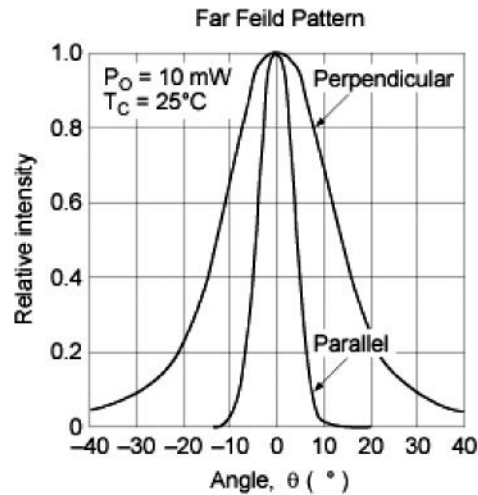
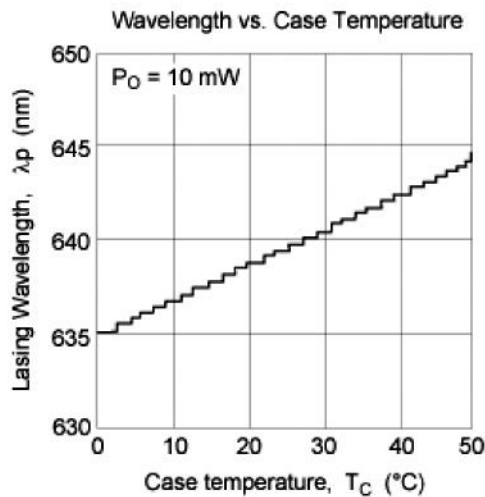
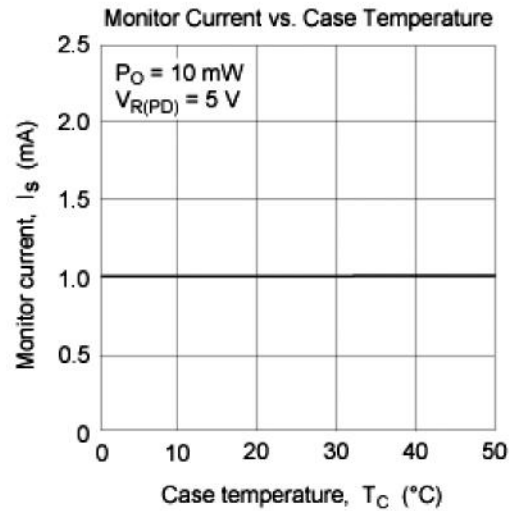
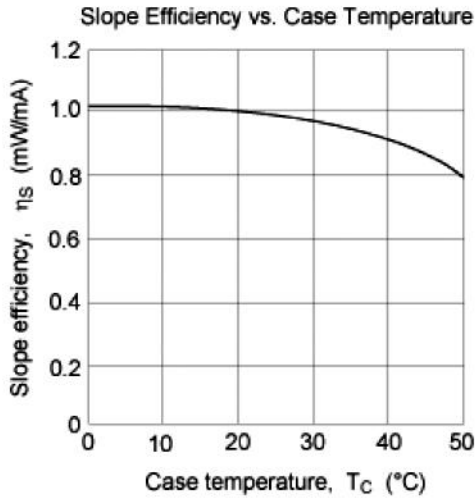
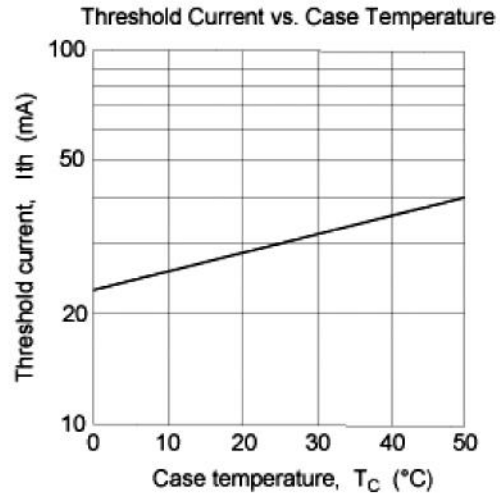
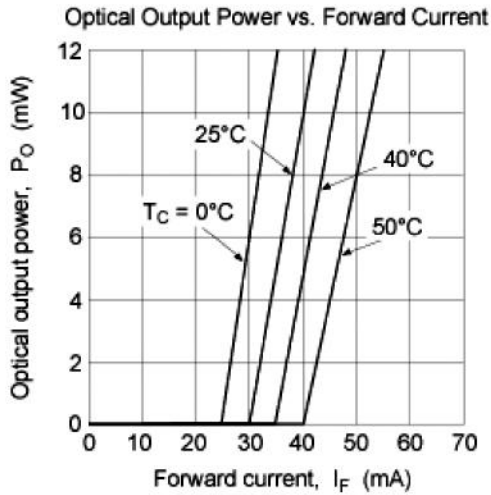
Absolute Maximum Ratings (T_c=25°C)

Item	Symbol	Ratings	Unit
Optical output power	P _o	12	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating Temperature	T _{opr}	-10 ~ +50	°C
Storage Temperature	T _{stg}	-40 ~ +85	°C

Optical and Electrical Characteristics (T_c=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	I _{th}	-	30	35	mA	-
Operating current	I _{op}	-	40	50	mA	P _o =10mW
Operating voltage	V _{op}	-	2.3	2.5	V	P _o =10mW
Beam divergence Parallel to the junction	θ _{//}	6	8	11	°	P _o =10mW
Beam divergence Perpendicular to the junction	θ _⊥	16	21	24	°	P _o =10mW
Lasing Wavelength	λ _p	630	639	643	nm	P _o =10mW
Monitor current	I _s	0.5	1.0	2.0	mA	P _o =10mW, V _{R(PD)} =5V

Typical Characteristic Curves



Cautions

- 1.Oclaro Japan,Inc.(OCJ) neither warrants nor grants licenses of any our lights or any third party's patent, copyright, trademark, or other intellectual property rights for information contained in this document, OCJ bears no responsibility for problems that may arise with third party's right, including intellectual property rights, in connection with use of the information contained in this document.
- 2.Products and product specifications may be subject to change without notice. Confirm that you have received the latest product standards or specifications before final design, purchase or use.
- 3.OCJ makes every attempt to ensure that its products are of high quality and reliability. However, contact our sales office before using the product in an application that demands especially high quality and reliability or where its failure or malfunction may directly threaten human life or cause risk of bodily injury, such as aerospace, aeronautics, nuclear power, combustion control, transportation, traffic safety equipment or medical equipment for life support.
- 4.Design your application so that the products is used within the ranges guaranteed by OCJ. particularly for maximum rating, operating supply voltage range, heat radiation characteristics, installation conditions and other characteristics. OCJ. bears no responsibility for failure or damage when used beyond the guaranteed ranges. Even within the guaranteed ranges, consider normally foreseeable failure rates or failure modes in semiconductor devices and employ systemic measures such as fail-safes, so that the equipment incorporating OCJ product does not cause bodily injury, fire or other consequential damage due to operation of the OCJ product.
- 5.This product is not designed to be radiation resistant.
- 6.No one is permitted to reproduce or duplicate, in any form, the whole or part of this document without written approval from OCJ.
- 7.Contact our sales office for any questions regarding this document or OCJ. products.

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 (without violet laser diode) 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.

Contact Information

www.oclaro.com

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by Oclaro before they become applicable to any particular order or contract. In accordance with the Oclaro policy of continuous improvement specifications may change without notice. Further details are available from any Oclaro sales representative.



Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

HL6358MG/59MG Rev.3 Mar. 08, 2013

©Oclaro 2013. Oclaro the Oclaro, Inc. logo, and all other Oclaro, Inc product names and slogans are trademarks or registered trademarks of Oclaro, Inc. in the U.S.A. or other countries. Products described in this datasheet may be covered by one or more patents in the U.S.A. and abroad. Information in this datasheet is subject to change without notice..

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [oclaro](#) manufacturer:

Other Similar products are found below :

[HL6323MG-A](#)