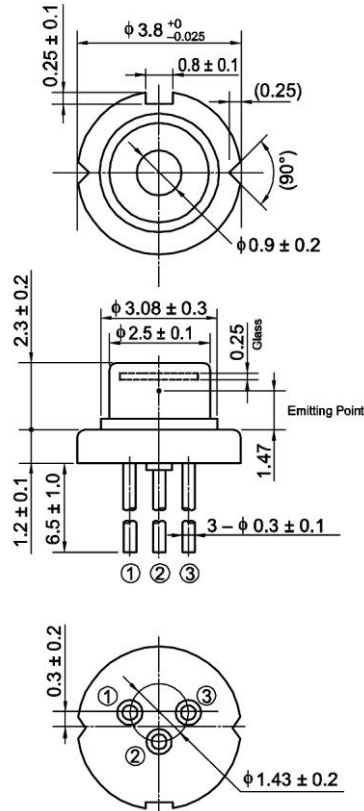


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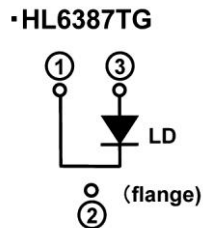
AlGaInP Laser Diode

642nm/65mW

Outline



Internal Circuit



Features:

- Visible light output: 642nm Typ.
- Optical output power: 60mW (CW)
- Single transverse mode
- Low operating current: 135mA Typ.
- Low operating voltage: 2.7V Max.
- Operating temperature: +50°C
- Small package: $\phi 3.8$ mm
- TE mode oscillation

Applications

- Pico projector
- Laser module
- Light source of optical equipments

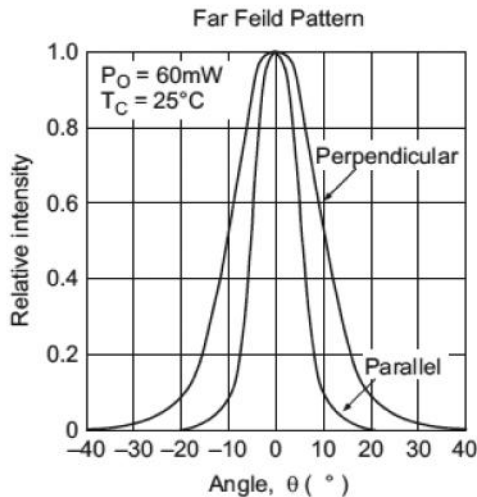
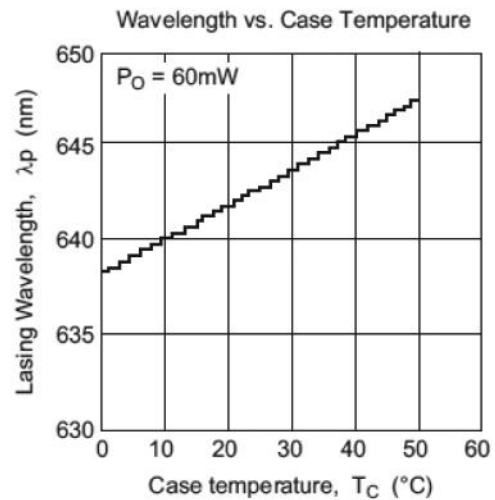
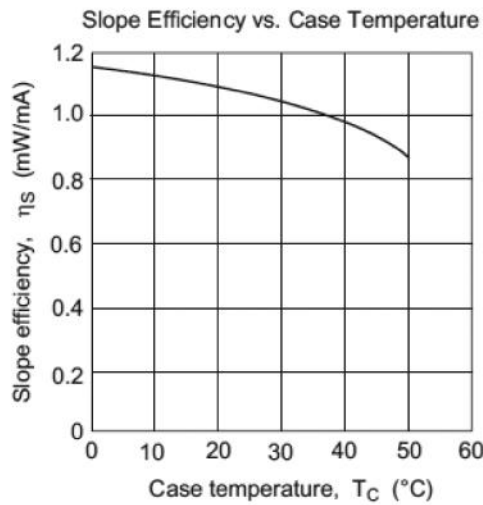
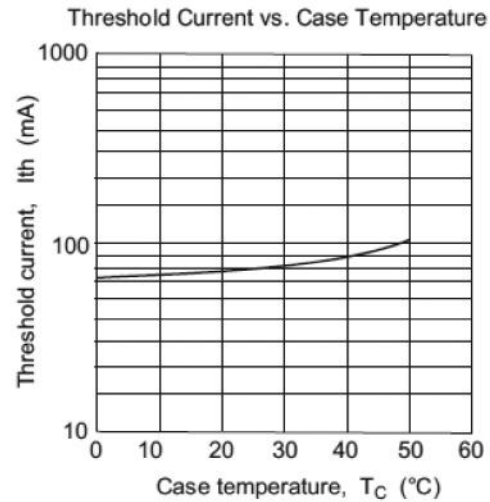
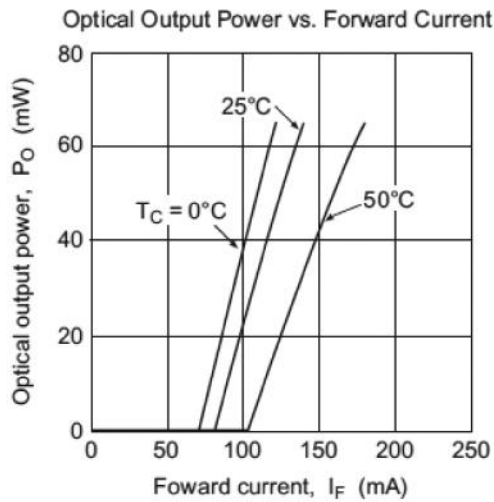
Absolute Maximum Ratings (T_c=25°C)

Item	Symbol	Ratings	Unit
Optical output power	P _o	65	mW
LD Reverse Voltage	V _{R(LD)}	2	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}	-	80	95	mA	-
Operating current	I _{op}	-	135	155	mA	P _o =60mW
Operating voltage	V _{op}	-	2.5	2.7	V	P _o =60mW
Beam divergence Parallel to the junction	θ _{//}	6	9	13	°	P _o =60mW
Beam divergence Perpendicular to the junction	θ _⊥	15	20	24	°	P _o =60mW
Lasing Wavelength	λ _p	635	642	645	nm	P _o =60mW

Typical Characteristic Curves



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- 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.
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- 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

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

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