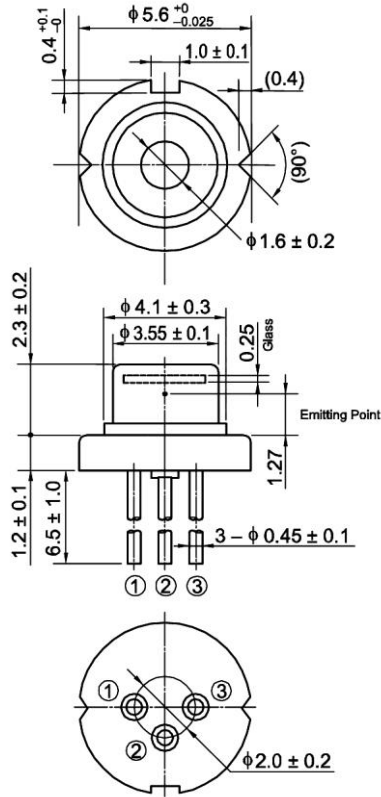


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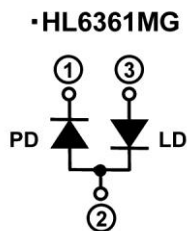
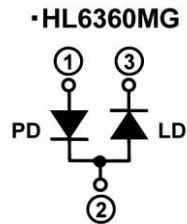
AlGaInP Laser Diode

639nm/25mW

Outline



Internal Circuit



Features:

- Visible light output: 639nm Typ.
- Optical output power: 20mW (CW)
- Single transverse mode
- Low operating current: 65mA Typ.
- Low operating voltage: 2.5V Max.
- Built-in photodiode for monitoring laser output
- TE mode oscillation

Applications

- Laser leveler
- Bar code reader
- Distance meter
- Light source of optical equipments

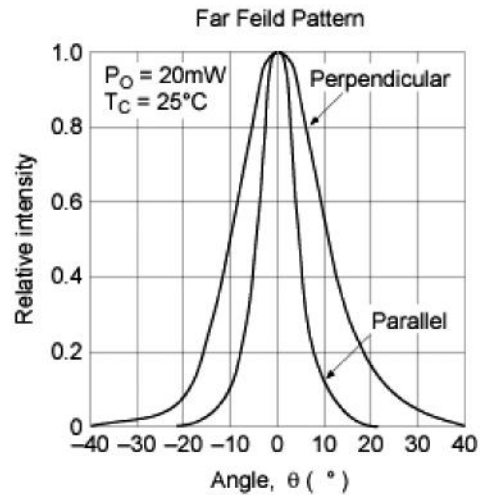
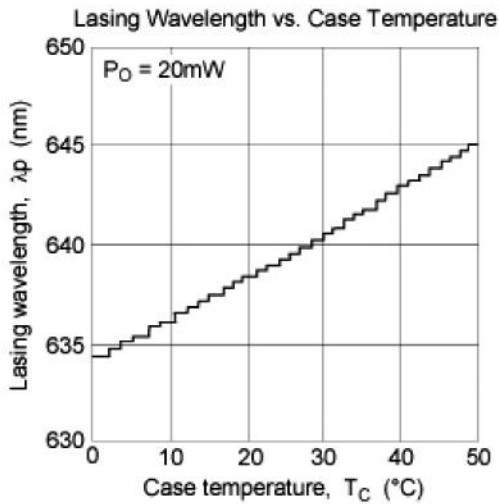
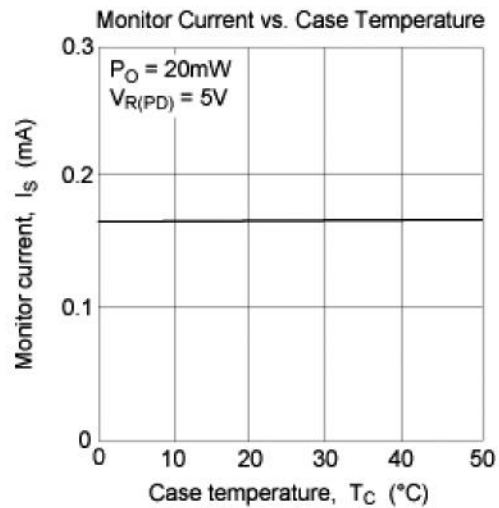
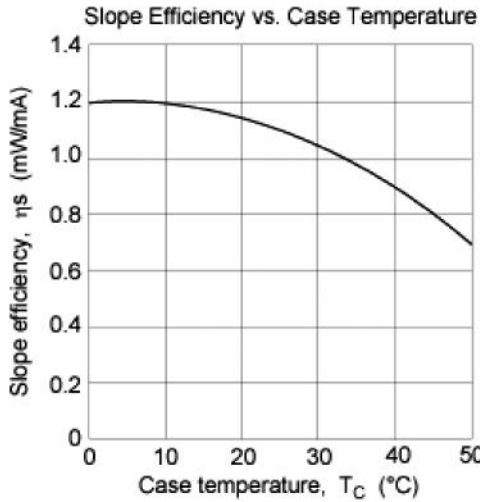
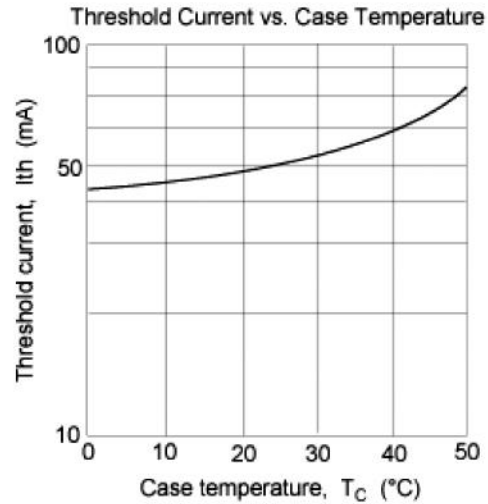
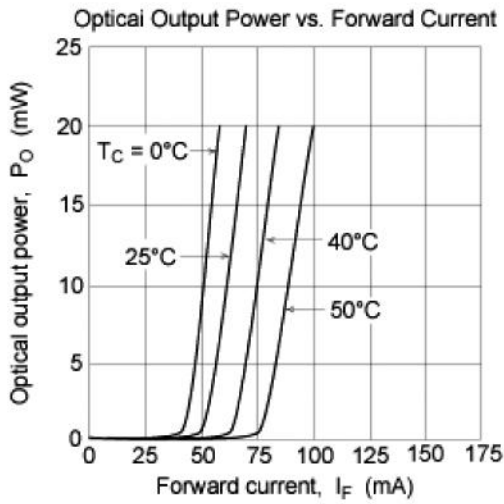
Absolute Maximum Ratings (T_c=25°C)

Item	Symbol	Ratings	Unit
Optical output power	P _o	25	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}	-	45	60	mA	-
Operating current	I _{op}	-	65	80	mA	P _o =20mW
Operating voltage	V _{op}	-	2.3	2.5	V	P _o =20mW
Beam divergence Parallel to the junction	θ _{//}	6	9	12	°	P _o =20mW
Beam divergence Perpendicular to the junction	θ _⊥	16	21	24	°	P _o =20mW
Lasing Wavelength	λ _p	630	639	643	nm	P _o =20mW
Monitor current	I _s	0.1	0.2	0.4	mA	P _o =20mW, V _{R(PD)} =5V

Typical Characteristic Curves



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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

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