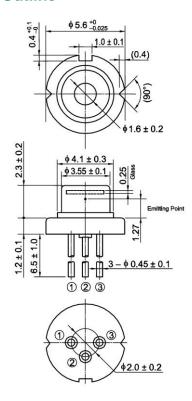
# HL6397MG/98MG

639nm/25mW

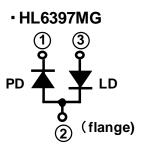
AlGaInP Laser Diode

## **Outline**

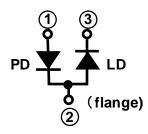


(unit:mm)

## **InternalCircuit**



HL6398MG



#### **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.
- Operating temperature: +60°C
- TE mode oscillation

## **Application**

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

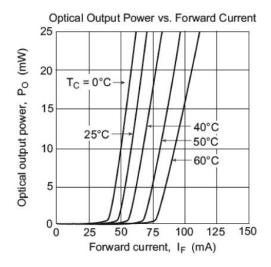
## **Absolute Maximum Ratings (Tc=25°C)**

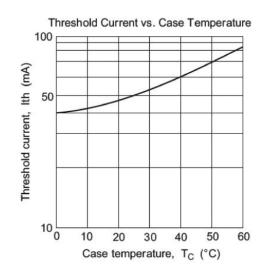
Item	Symbol Ratings		Unit
Optical output power	Ро	25	mW
LD Reverse Voltage	V <sub>R(LD)</sub>	2	V
PD Reverse Voltage	V <sub>R(PD)</sub>	30	V
Operating Temperature	Topr	-10 ~ +60	°C
Storage Temperature	Tstg	-40 ~ +85	°C

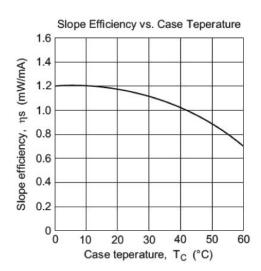
## Optical and Electrical Characteristics (Tc=25°C)

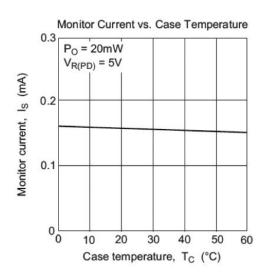
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	lth	-	45	60	mA	-
Operating current	lop	-	65	80	mA	Po=20mW
Operating voltage	Vop	-	2.3	2.5	V	Po=20mW
Beam divergence Parallel to the junction	θ//	6	9	12	0	Po=20mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	16	21	24	0	Po=20mW, FWHM
Lasing Wavelength	λр	630	639	643	nm	Po=20mW
Monitor Current	ls	0.1	0.2	0.4	mA	Po=20mW, V <sub>R(PD)</sub> =5V

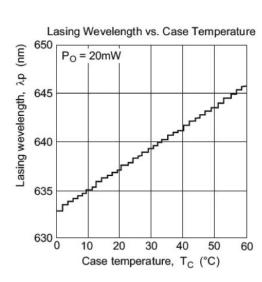
## **Typical Characteristic Curves**

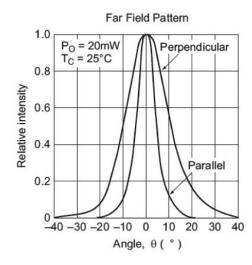












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  - 2. This product (without violet laser diode) contains gallium arsenide (GaAs), which may seriously endanger your health even at very low doses. Please avoid treatment which may create GaAs powder or gas, such as disassembly or performing chemical 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.

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Data Sheet

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