Data Sheet

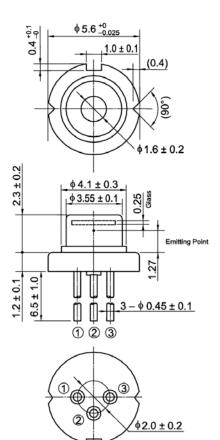
HL6397MG/98MG

639nm/25mW

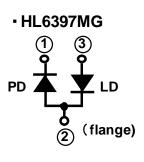
AlGaInP Laser Diode

USHIO

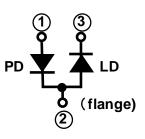
Outline



Internal Circuit



• HL6398MG



(Unit: mm)

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	Po	25	mW
LD Reverse Voltage	VR(LD)	2	V
PD Reverse Voltage	Vr(pd)	30	V
Operating Temperature	Topr	-10 ~ +60	°C
Storage Temperature	Tstg	-40 ~ +85	°C

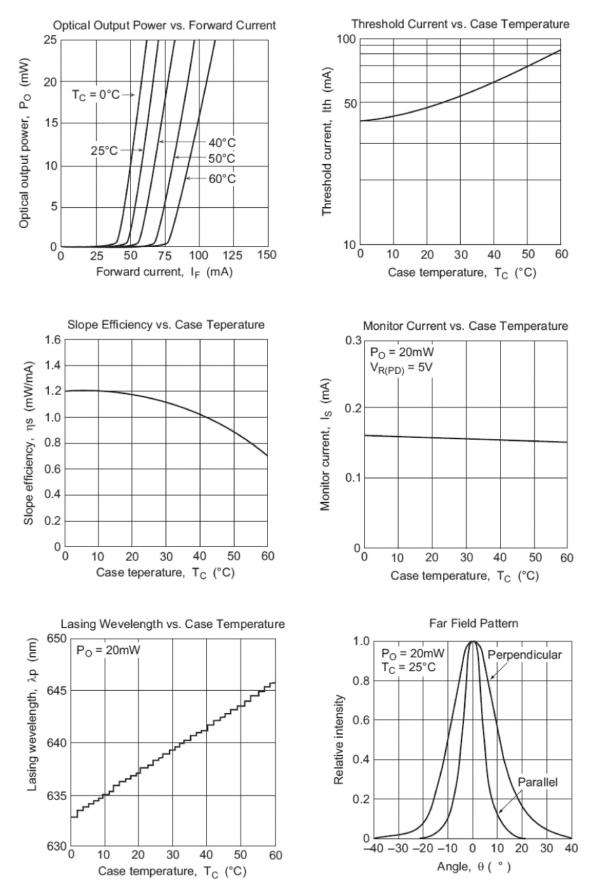
Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Тур	Мах	Unit	Test Condition
Threshold current	lth	-	45	60	mA	-
Operating current	Іор	-	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	λρ	630	639	643	nm	Po=20mW
Monitor Current	ls	0.1	0.2	0.4	mA	Po=20mW, V _{R(PD)} =5V

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Typical Characteristic Curves



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