Data Sheet

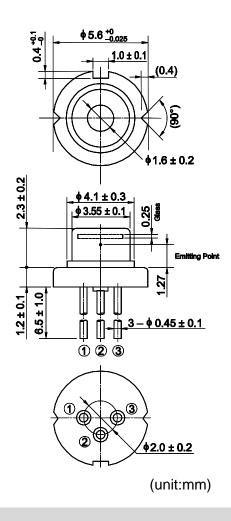
HL6362MG/63MG

640nm / 45mW

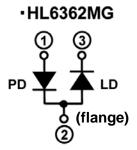
AlGaInP Laser Diode

USHIO

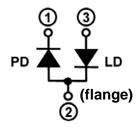
Outline



Internal Circuit



·HL6363MG



Features

- Visible light output: 640nm Typ.
- Optical output power: 40mW (CW)
- Single transverse mode
- Low operating current: 90mA Typ.
- Low operating voltage: 2.6V Max.
- Operating temperature: +50°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	45	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

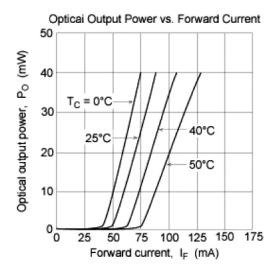
Optical and Electrical Characteristics (Tc=25°C)

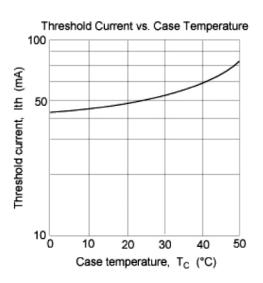
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	-	45	60	mA	-
Operating current	lop	-	90	110	mA	Po=40mW
Operating voltage	Vop	-	2.4	2.6	V	Po=40mW
Beam divergence Parallel to the junction	θ//	7	10	13	0	Po=40mW, FWHM
Beam divergence Perpendicular to the junction	θΤ	16	21	24	0	Po=40mW, FWHM
Lasing Wavelength	λр	-	640	643	nm	Po=40mW
Monitor Current	Is	0.15	0.30	0.60	mA	Po=40mW, V _{R(PD)} =5V

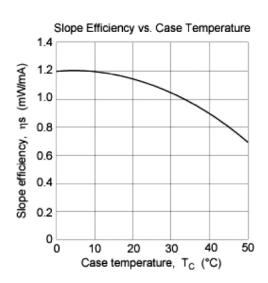
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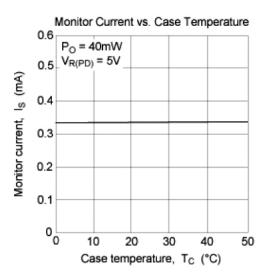


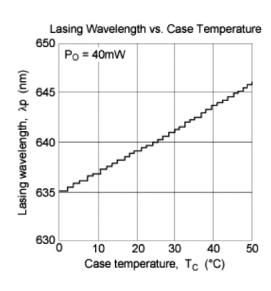
Typical Characteristic Curves

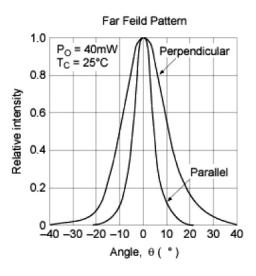












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