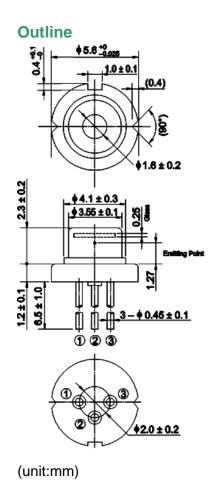
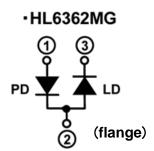
HL6362MG/63MG

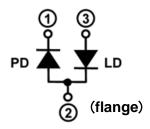
640nm / 45mW AlGaInP Laser Diode



InternalCircuit



·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

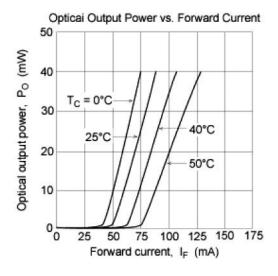
Absolute Maximum Ratings (Tc=25°C)

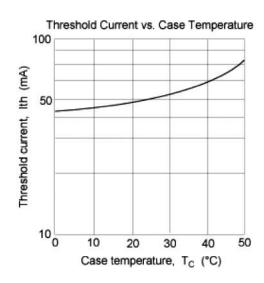
Item	Symbol	Ratings	Unit
Optical output power	Ро	45	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

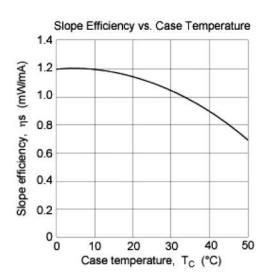
Optical and Electrical Characteristics (Tc=25°C)

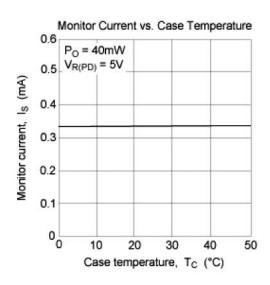
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	-	45	60	mA	-
Operating current	lop	-	90	110	mA	Po=40mW
Operating voltage	Vop	-	2.4	2.6	V	Po=40mW
Beam divergence Parallel to the junction	θ//	7	10	13	0	Po=40mW, FWHM
Beam divergence Perpendicular to the junction	θΤ	16	21	24	o	Po=40mW,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

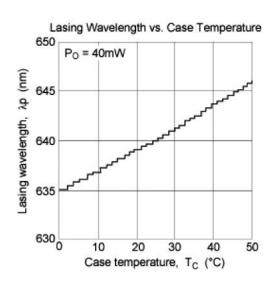
Typical Characteristic Curves

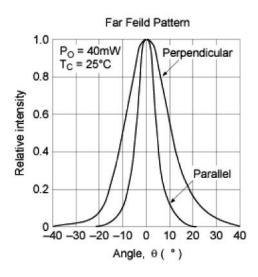












Data Sheet

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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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