Data Sheet

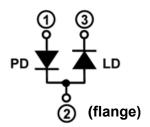
HL6358MG-A

639nm / 12mW AlGalnP Laser Diode

Outline \$\frac{1}{2} \quad \quad \frac{1}{2} \quad \quad \frac{1}{2} \quad \quad \frac{1}{2} \quad \quad \quad \frac{1}{2} \quad \q

Internal Circuit

HL6358MG-A



Features

• Visible light output: 639 nm Typ.

(unit:mm)

- Optical output power: 10 mW (CW)
- Single transverse mode
- Low operating current: 40 mA Typ.
- Low operating voltage: 2.5 V Max.
- Operating temperature: +50°C
- TE mode oscillation

Application

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



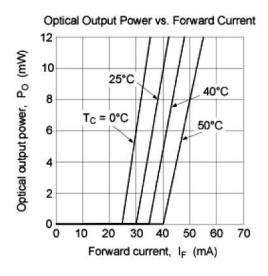
Absolute Maximum Ratings (Tc=25°C)

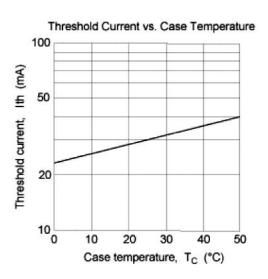
Item	Symbol Ratings		Unit
Optical output power	Ро	12	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

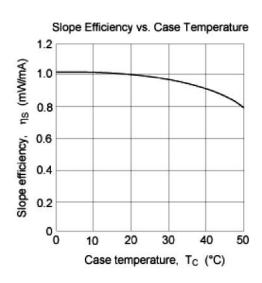
Optical and Electrical Characteristics (Tc=25°C)

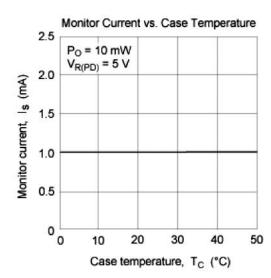
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	-	30	35	mA	-
Operating current	lop	-	40	50	mA	Po=10mW
Operating voltage	Vop	-	2.3	2.5	V	Po=10mW
Beam divergence Parallel to the junction	θ//	6	8	11	0	Po=10mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	16	21	24	0	Po=10mW, FWHM
Lasing Wavelength	λр	630	639	643	nm	Po=10mW
Monitor Current	Is	0.5	1.0	2.0	mA	Po=10mW, V _{R(PD)} =5V

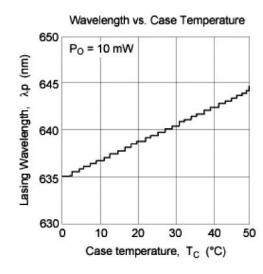
Typical Characteristic Curves

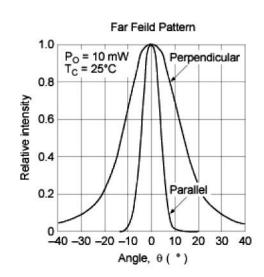












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Data Sheet

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