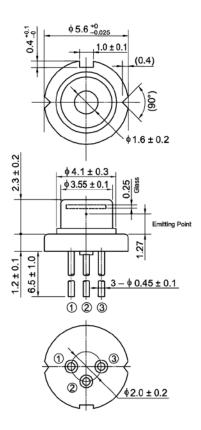
Data Sheet

HL6354MG/55MG

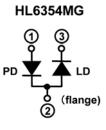
638nm / 7mW AlGaInP Laser Diode

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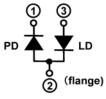
Outline



Internal Circuit







(unit:mm)

Features

- Optical output power: 5mW(CW) •
- Visible light output:638nm Typ.
- Low operating current: 27mA Typ.
- Low operating voltage: 2.4V Max.
- Operating temperature: 50°C
- TM mode oscillation
- Single transverse mode

Application

- Laser leveler ٠
- Laser pointer •
- Distance meter •
- Light source of optical equipment •



Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Ро	7	mW
LD Reverse Voltage	VR(LD)	2	V
PD Reverse Voltage	Vr(pd)	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C

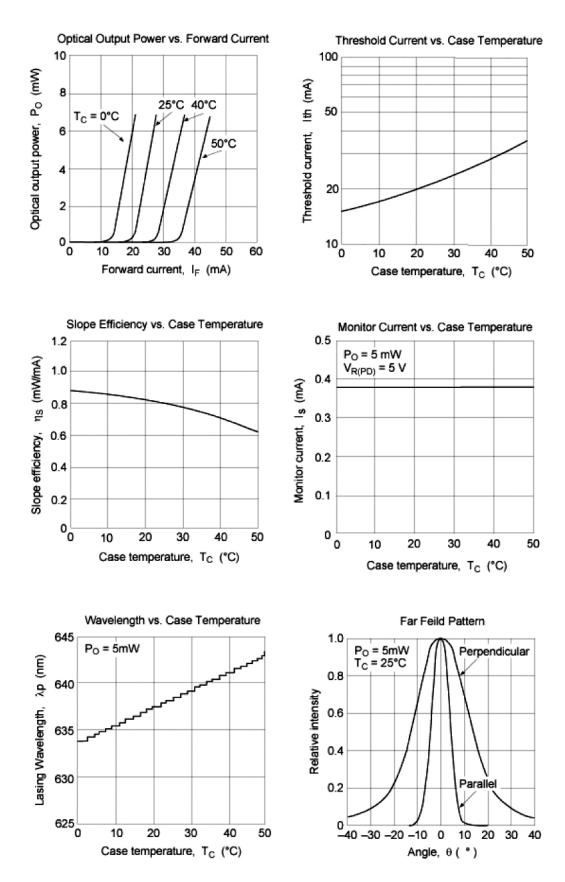
Optical and Electrical Characteristics (Tc=25°C)

	Symbol	Min	Тур	Мах	Unit	Test Condition
Threshold current	lth	-	20	27	mA	-
Operating current	Іор	-	27	36	mA	Po=5mW
Operating voltage	Vop	-	2.2	2.4	V	Po=5mW
Lasing Wavelength	λρ	630	638	640	nm	Po=5mW
Beam divergence Parallel to the junction	θ//	6	8	10	0	Po=5mW FWHM
Beam divergence Perpendicular to the junction	θ⊥	20	25	30	o	Po=5mW FWHM
Monitor current	ls	0.15	0.40	0.60	mA	$Po=5mW, V_{R(PD)}=5V$

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Typical Characteristic Curves



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