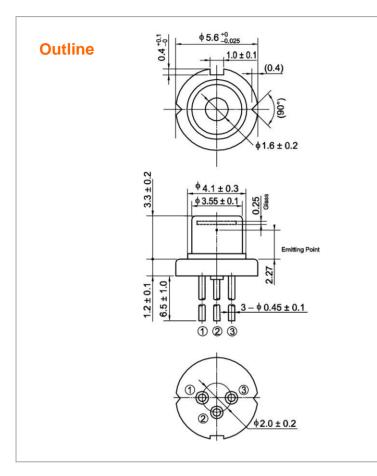
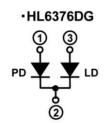
Data Sheet

HL6376DG

AlGalnP Laser Diode



Internal Circuit





642nm/65mW

Features:

- Visible light output: 642nm Typ.
- Optical output power: 60mW (CW)
- Single transverse mode
- Low operating current: 125mA Typ.
- Low operating voltage: 2.7V Max.
- Operating temperature: +50°C
- TE mode oscillation

Applications

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





Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Po	65	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)

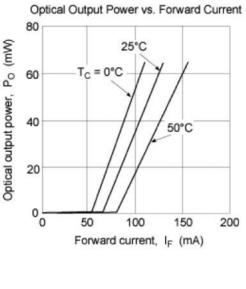
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	lth	-	65	80	mA	-
Operating current	lop	-	125	155	mA	Po=60mW
Operating voltage	Vop	-	2.5	2.7	V	Po=60mW
Beam divergence Parallel to the junction	θ//	7	10	13	o	Po=60mW
Beam divergence Perpendicular to the junction	θ⊥	16	21	24	0	Po=60mW
Lasing Wavelength	λρ	635	642	645	nm	Po=60mW
Monitor current	ls	0.2	0.4	0.8	mA	Po=60mW, Vr(PD)=5V

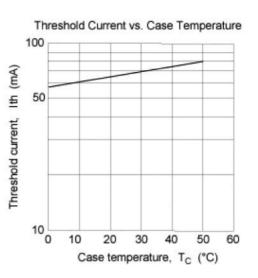


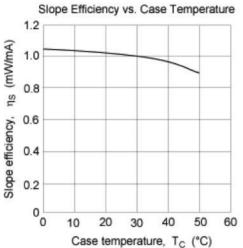


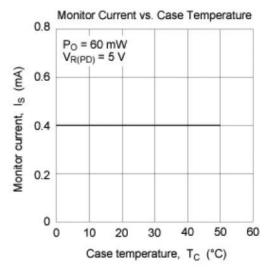
Typical Characteristic Curves

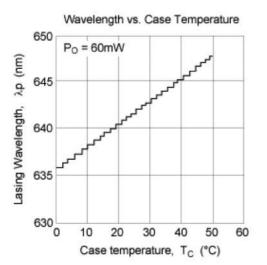
Data Sheet

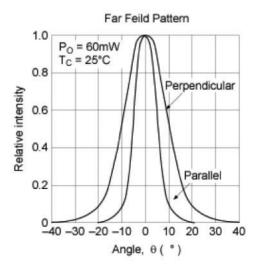
















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Contact Information

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