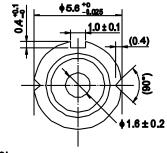
Data Sheet

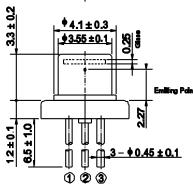
HL63163DG

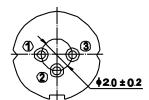
633nm/100mW AlGaInP Laser Diode



Outline



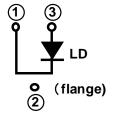




(Unit: mm)

Internal Circuit

- HL63163DG



Features

- Shorter wavelength: 633nm Typ.
- High optical output power: 100mW
- Low operating current: 170mA Typ.
- Small package: \$5.6mm
- Single transverse mode
- TE mode oscillation

Application

- Medical
- Industry
- Light source of optical equipment



Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Ро	100	mW
LD Reverse Voltage	V _{R(LD)}	2	V
Operating Temperature	Topr	-10 ~ +40	°C
Storage Temperature	Tstg	-40 ~ +85	°C

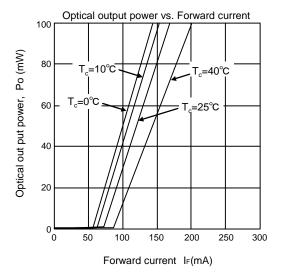
Optical and Electrical Characteristics (Tc=25°C)

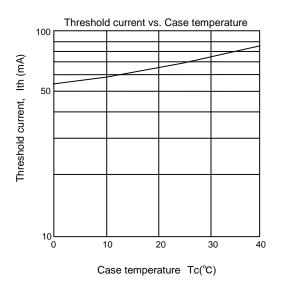
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	-	60	75	mA	-
Operating current	lop	-	175	210	mA	Po=120mW
Operating voltage	Vop	-	2.5	3.3	V	Po=120mW
Beam divergence Parallel to the junction	θ//	7	10	13	0	Po=120mW, FWHM
Beam divergence Perpendicular to the junction	θΤ	15	17	21	0	Po=120mW, FWHM
Lasing Wavelength	λр	630	633	636	nm	Po=120mW

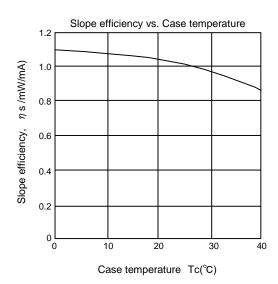
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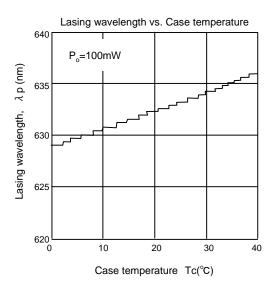


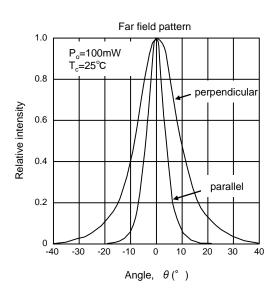
Typical Characteristic Curves











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