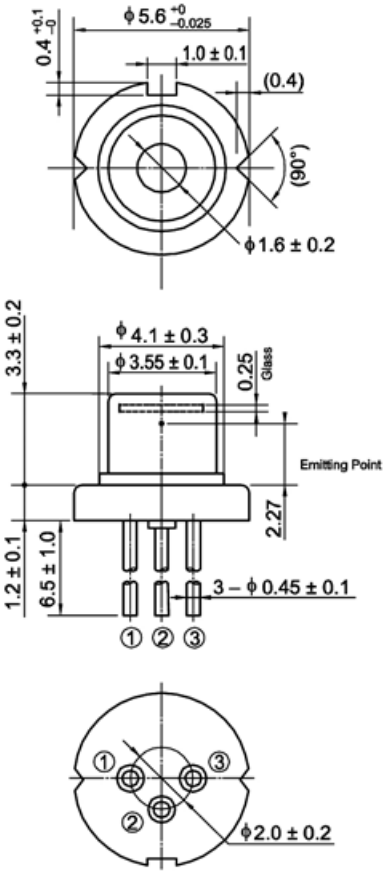
Data Sheet

HL63163DG

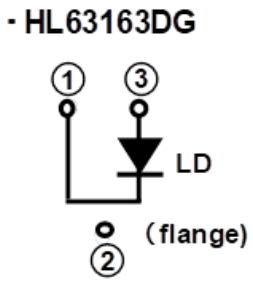
633nm／100mW　AlGaInP Laser Diode

Outline



(Unit: mm)

Internal Circuit



Features

- Shorter wavelength: 633nm Typ.
- High optical output power: 100mW
- Low operating current: 170mA Typ.
- Small package: ϕ5.6mm
- Single transverse mode
- TE mode oscillation

Application

- Medical
- Industry
- Light source of optical equipment

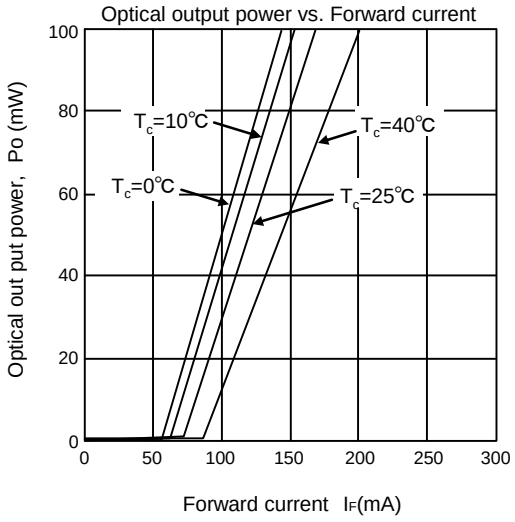
Absolute Maximum Ratings (Tc=25°C)

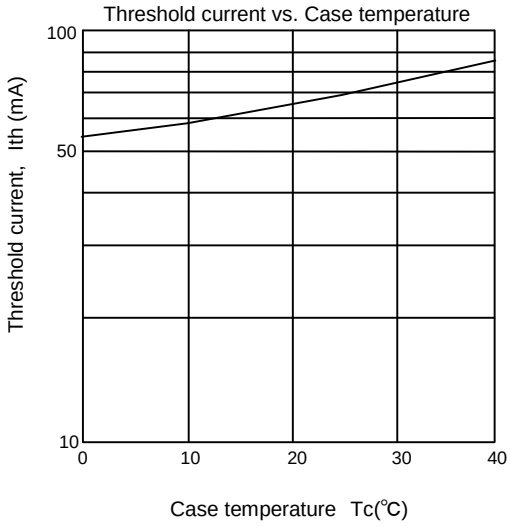
Item	Symbol	Ratings	Unit
Optical output power	Po	100	mW
LD Reverse Voltage	$V_{R(LD)}$	2	V
Operating Temperature	Topr	-10 ~ +40	°C
Storage Temperature	Tstg	-40 ~ +85	°C

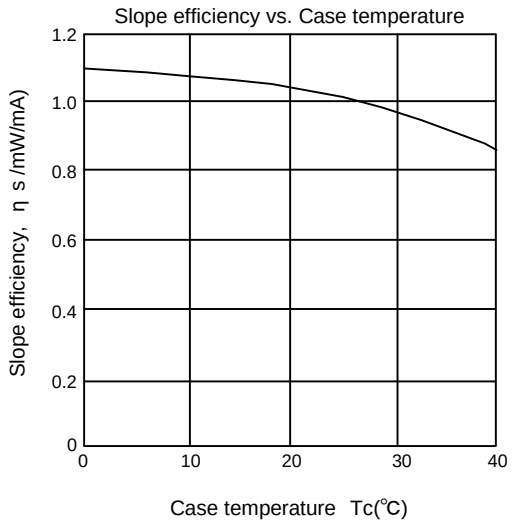
Optical and Electrical Characteristics (Tc=25°C)

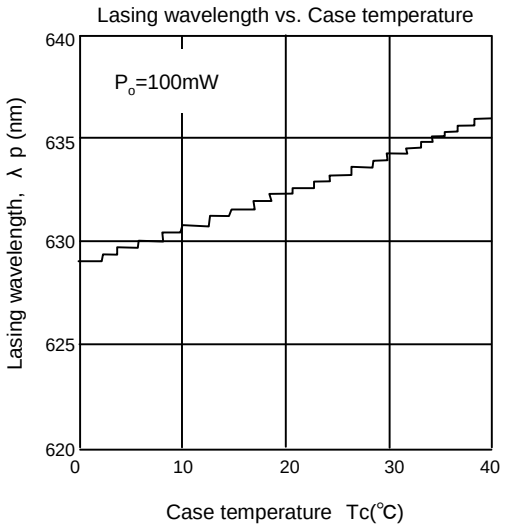
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	Ith	-	70	100	mA	-
Operating current	Iop	-	170	230	mA	Po=100mW
Operating voltage	Vop	-	2.6	3.0	V	Po=100mW
Beam divergence Parallel to the junction	θ//	5	8.5	13	o	Po=100mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	13	18	23	o	Po=100mW, FWHM
Lasing Wavelength	λp	630	633	636	nm	Po=100mW

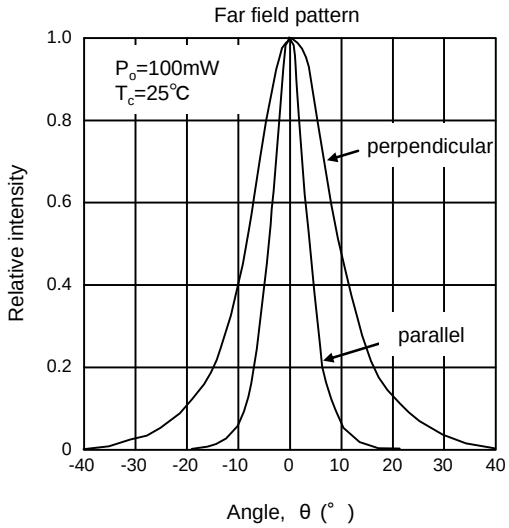
Typical Characteristic Curves











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