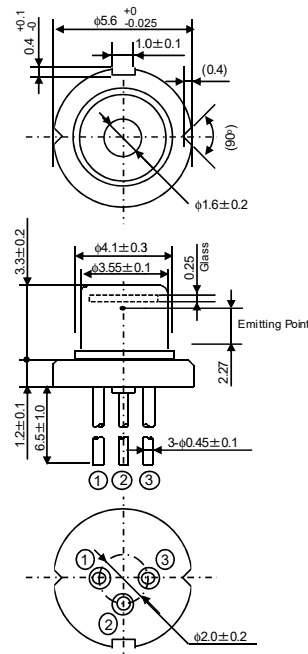


Data Sheet

HL63163DG

633nm / 100mW AlGaInP Laser Diode

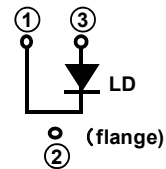
Outline



(Unit: mm)

Internal Circuit

• HL63163DG



Features

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

Application

- Medical
- Industry
- Light source of optical equipment

Absolute Maximum Ratings (Tc=25°C)

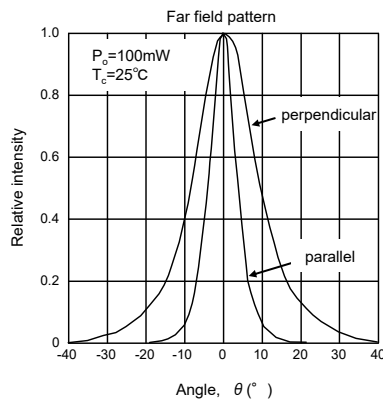
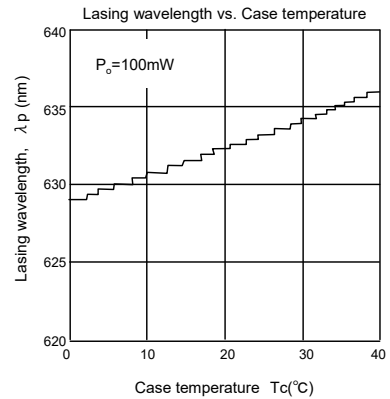
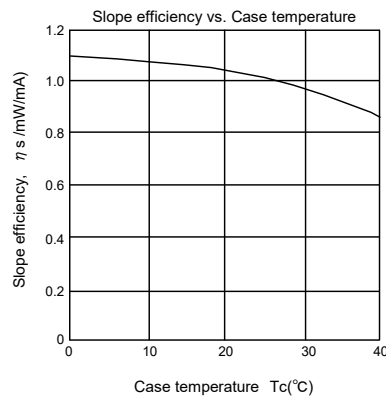
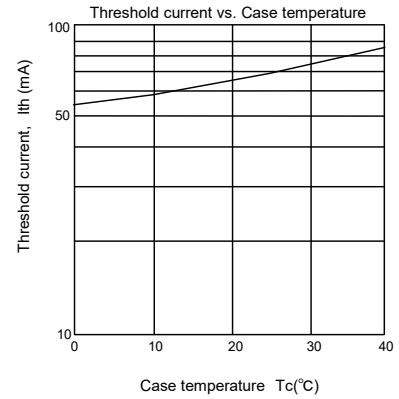
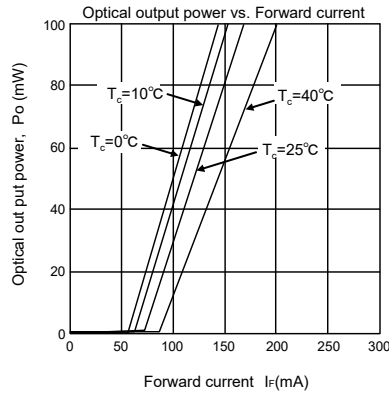
Item	Symbol	Ratings	Unit
Optical output power	Po	100	mW
LD Reverse Voltage	V _{R(LD)}	2	V
Operating Temperature	Topr	-10 ~ +40	°C
Storage Temperature	Tstg	-40 ~ +85	°C

Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	I _{th}	-	70	100	mA	-
Operating current	I _{op}	-	170	230	mA	Po=100mW
Operating voltage	V _{op}	-	2.6	3.0	V	Po=100mW
Beam divergence Parallel to the junction	θ _{//}	5	8.5	13	°	Po=100mW, FWHM
Beam divergence Perpendicular to the junction	θ _⊥	13	18	23	°	Po=100mW, FWHM
Lasing Wavelength	λ _p	630	633	636	nm	Po=100mW

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Typical Characteristic Curves



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Cautions

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- 7.Contact our sales office for any questions regarding this document or UOS products.

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- 2.This product (without violet laser diode) contains gallium arsenide (GaAs), which may seriously endanger your health even at very low doses. Please avoid treatment which may create GaAs powder or gas, such as disassembly or performing chemical experiments, when you handle the product. When disposing of the product, please follow the laws of your country and separate it from other waste such as industrial waste and household garbage.

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