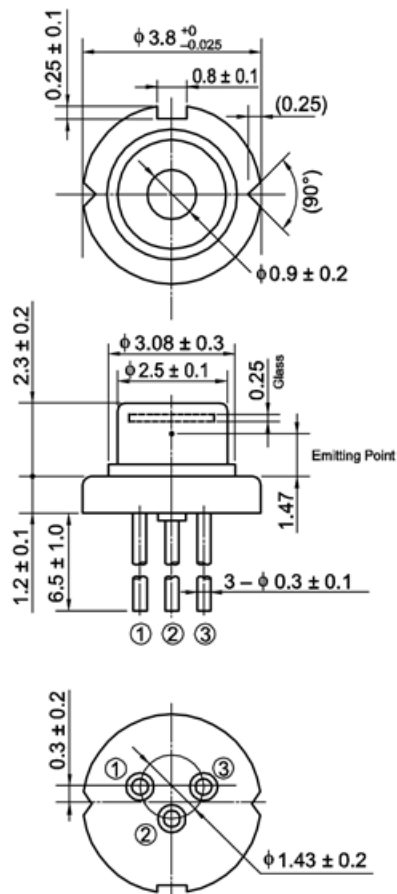




HL63653TG

640nm / 210mW AlGaInP Laser Diode

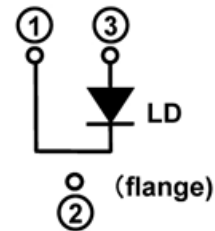
Outline



(Unit: mm)

Internal Circuit

HL63653TG



Features

- Visible light output: 640nm Typ.
- Optical output power: 210mW (CW)
- Single transverse mode
- Low operating current: 230mA at 200mW
- High Wall plug efficiency: 32%
- Small package: $\phi 3.8$ mm
- TE mode oscillation

Application

- Small projector
- Laser module
- Leveler

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power(1) (25°C)	Po (1)	210	mW
Optical output power(2) (60°C)	Po (2)	120	mW
LD Reverse Voltage	V _{R(LD)}	2	V
Operating Temperature	Topr	-10 ~ +60	°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}	-	50	70	mA	-
Operating current	I _{op}	-	230	260	mA	Po=200mW
Operating voltage	V _{op}	-	2.7	3.0	V	Po=200mW
Beam divergence Parallel to the junction	θ _{//}	5	8	13	°	Po=200mW, FWHM
Beam divergence Perpendicular to the junction	θ _⊥	10	14	18	°	Po=200mW, FWHM
Lasing Wavelength	λ _p	635	640	645	nm	Po=200mW

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