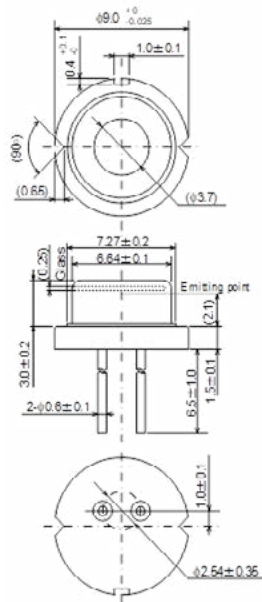


Preliminary Data Sheet

HL67203HD

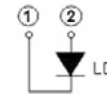
675nm / 1.3W AlGaInP Laser Diode

Outline



Internal Circuit

HL67203HD



(Unit: mm)

Features

- Single emitter
- Optical output power: 1.3W (CW)
- Wavelength: 675nm Typ.
- High wall plug efficiency: 40% Typ.
- High heat dissipation ϕ 9mm CAN package
- Multi transverse mode
- TE mode oscillation

Application

- Photodynamic therapy
- Photoimmunotherapy
- Medical, healthcare
- Life science
- Laser modules

HL67203HD

Preliminary Data Sheet

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	P _o	1.3	W
LD Reverse Voltage	V _{R(LD)}	2	V
Operating Temperature ^{Note1)}	T _{opr}	-10 ~ +75	°C
Storage Temperature	T _{stg}	-40 ~ +85	°C

Note1) Operating temperature is defined by Case temperature "Tc". High increase in temperature of LD chip itself is expected during operation due to high current density. Thus, without proper heat dissipation, it is observed that no specific output power is achieved or it results to LD degradation. It is advised that sufficient measure of heat dissipation should be taken so that LD's maximum operating temperature is not exceeded during actual operation.

Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	I _{th}	-	360	-	mA	-
Operating current	I _{op}	-	1380	-	mA	P _o =1.2W
Operating voltage	V _{op}	-	2.2	-	V	P _o =1.2W
Beam divergence Parallel to the junction	θ _{//}	-	12	-	°	P _o =1.2W, FWHM
Beam divergence Perpendicular to the junction	θ _⊥	-	32	-	°	P _o =1.2W, FWHM
Lasing Wavelength	λ _p	670	675	680	nm	P _o =1.2W

HL67203HD

Preliminary Data Sheet

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HL67203HD

Preliminary Data Sheet

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