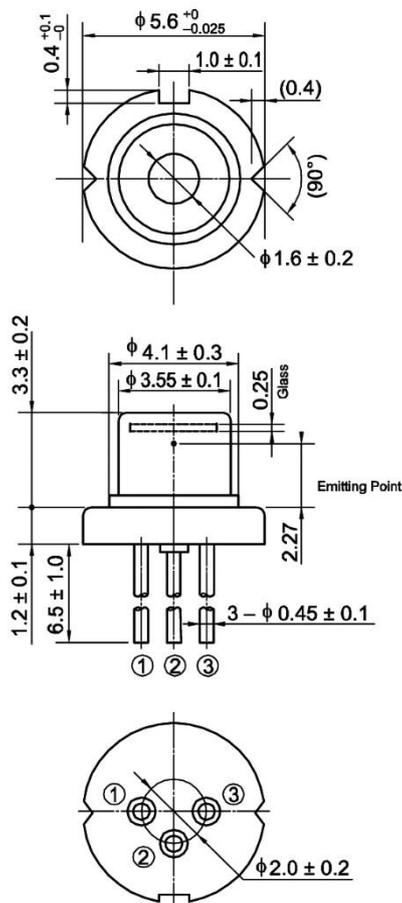




HL67231DG

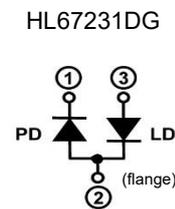
671 nm Anti-Reflection Coated Laser Diode

Outline



(Unit: mm)

Internal Circuit



Features

- AR coated front facet
Target reflectivity 0.1% at 671nm
- Optical output power 210mW
- Operating temperature: +75°C
- TE mode oscillation

Application

- External cavity diode lasers
- Tunable laser source instruments
- Light source of optical equipment

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power ^{Note1)}	Po	210	mW
Forward current ^{Note1)}	IF	280	mA
LD reverse voltage	VR(LD)	2	V
PD reverse voltage	VR(PD)	30	V
Operating temperature	Topr	-10 ~ +75	°C
Storage temperature	Tstg	-40 ~ +85	°C

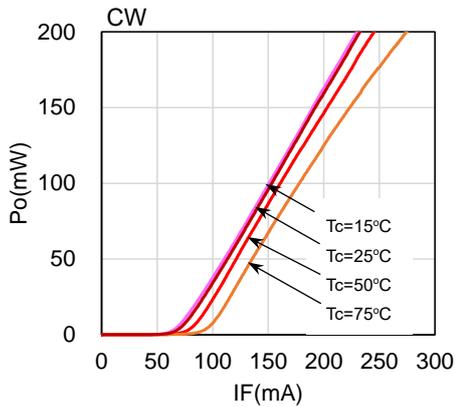
Note1) Either value must not be exceeded.

Optical and Electrical Characteristics (Tc=25°C)

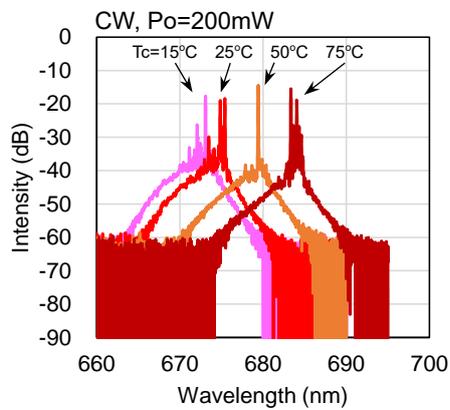
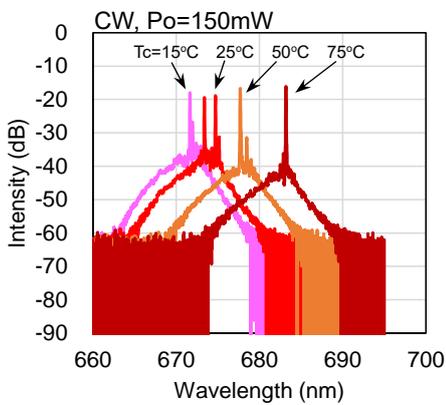
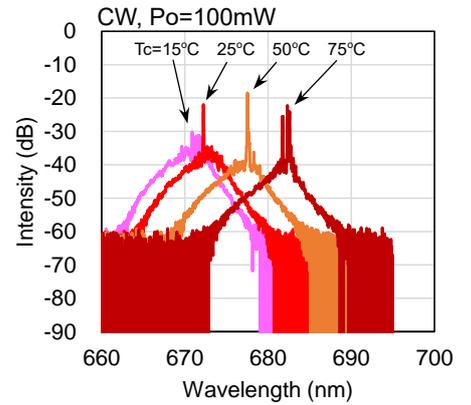
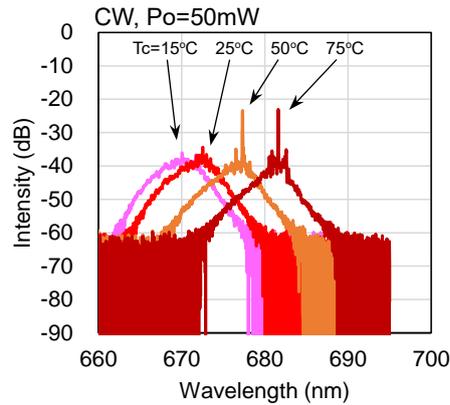
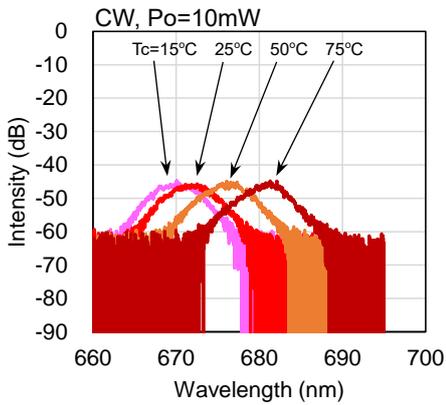
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	Ith	-	60	-	mA	-
Operating current	Iop	-	240	-	mA	Po=200mW
Operating voltage	Vop	-	2.7	-	V	Po=200mW
Wavelength	λ_p	-	671	-	nm	Po=200mW
Beam divergence Parallel to the junction	$\theta_{//}$	-	8	-	°	Po=200mW, FWHM
Beam divergence Perpendicular to the junction	θ_{\perp}	-	15	-	°	Po=200mW, FWHM

Example Characteristic Curves

Optical Output Power vs Forward Current



Spectrum



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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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