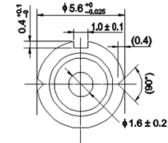
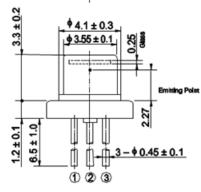


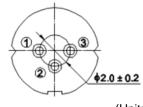
660nm/210mW(CW)/420mW(Pulse)

AlGaInP Laser Diode

Outline







(Unit: mm)

Internal Circuit

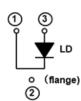
HL65221DG



HL65222DG



HL65223DG



Features

- Visible light output: 660nm Typ.
- Optical output power:
 210mW (CW), 420mW (Pulse)
- Low operating current:
 230mA Typ. (200mW (CW))
 405mA Typ. (400mW (Pulse))
- Operating temperature: +75°C
- Single transverse mode
- TE mode oscillation

Application

- Sensor application
- Light source of optical equipments

Data Sheet

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power (1) (Tc=-10~60°C)	Po(1)	210	mW
Optical output power (2) (Tc=75°C)	Po(2)	150	mW
Pulse optical output power (1) (Tc=-10~60°C) Note1)	Po _(pulse) (1)	420	mW
Pulse optical output power (2) (Tc=75°C) Note1)	Po _(pulse) (2)	300	mW
LD Reverse Voltage	V _R (LD)	2	V
PD Reverse Voltage Note2)	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +75	°C
Storage Temperature	Tstg	-40 ~ +85	°C

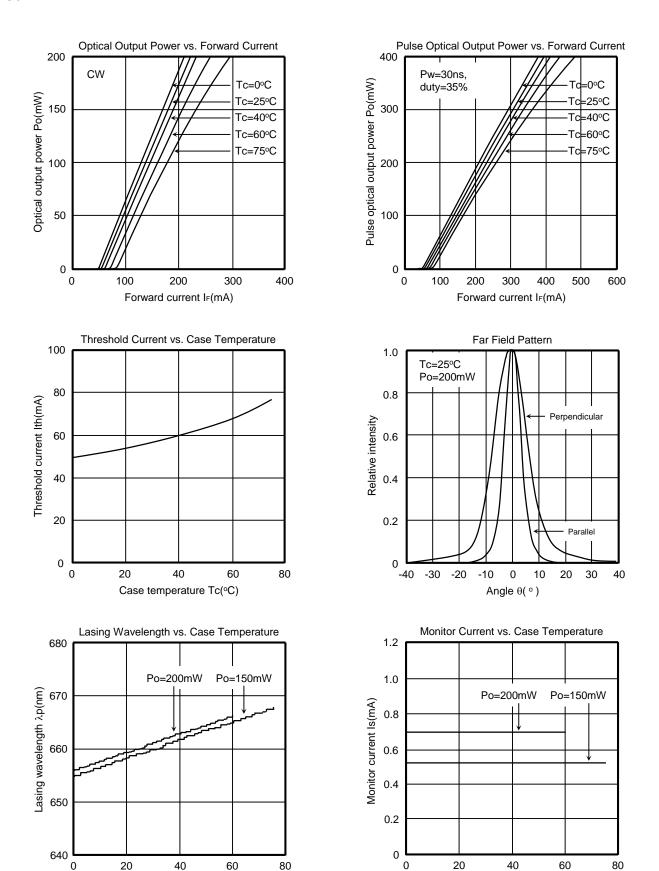
Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	Ith	-	60	90	mA	-
Operating current	lop	-	230	270	mA	Po=200mW
	Iop _(pulse)	-	405	-	mA	Po(Pulse)=400mW, Note1
Operating voltage	Vop	-	2.7	3.2	V	Po=200mW
Beam divergence Parallel to the junction	θ//	5	8	11	0	Po=200mW, FWHM
Beam divergence Perpendicular to the junction	θΤ	11	15	19	0	Po=200mW, FWHM
Lasing Wavelength	λр	652	660	665	nm	Po=200mW
Monitor current Note2)	Is	0.1	0.7	1.3	mA	Po=200mW, VR(PD)=5V

Note1) Pulse condition: Pulse width = 30nsec, duty = 35%

Note2) Not applicable to HL65223DG.

Typical Characteristic Curves



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Case temperature Tc(°C)

Case temperature Tc(°C)

Data Sheet

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Data Sheet

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