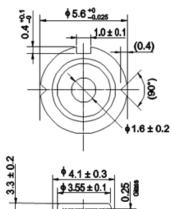
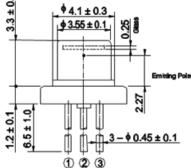
HL65241DG/242DG/243DG

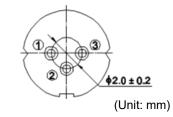
660 nm/110 mW(CW)/220 mW(Pulse)

AlGaInP Laser Diode

Outline







Internal Circuit

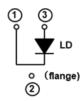




HL65242DG



HL65243DG



Features

- Visible light output: 660nm Typ.
- Optical output power:
 110mW (CW), 220mW (Pulse)
- Low operating current:
 145mA Typ. (100mW (CW))
 225mA Typ. (200mW (Pulse))
- Operating temperature: +90°C
- Single transverse mode
- TE mode oscillation

Application

- Sensor application
- Light source of optical equipment

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Data Sheet

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	Ро	110	mW
Pulse optical output power Note1)	Po _(pulse)	220	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage Note2)	V _{R(PD)}	30	V
Operating Temperature	Topr	-10 ~ +90	°C
Storage Temperature	Tstg	-40 ~ +100	°C

Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	lth	-	60	90	mA	-
Operating current	lop	-	145	180	mA	Po=100mW
	Iop _(pulse)	-	225	-	mA	Po(Pulse)=200mW, Note1
Operating voltage	Vop	-	2.45	3.0	V	Po=100mW
Beam divergence Parallel to the junction	θ//	4	7	10	0	Po=100mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	11	15	19	0	Po=100mW, FWHM
Lasing Wavelength	λр	652	660	665	nm	Po=100mW
Monitor current Note2)	ls	0.05	0.35	1.10	mA	Po=100mW, V _{R(PD)} =5V

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

Note2) Not applicable to HL65243DG.

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Caution - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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Data Sheet

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