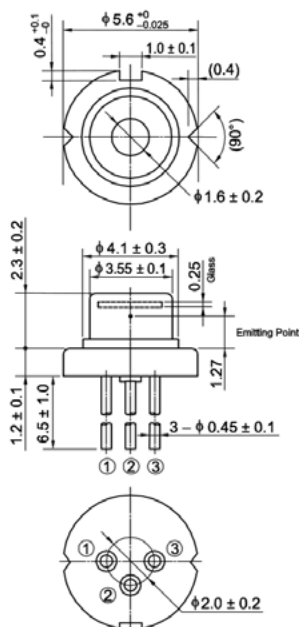


## HL65261MG/62MG/64MG

658nm/85mW [CW]/310mW [Pulse]

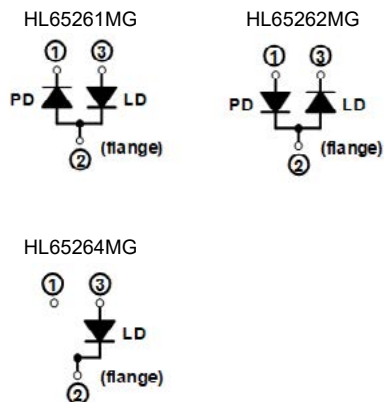
AlGaInP Laser Diode

### Outline



(Unit: mm)

### Internal Circuit



### Features

- Visible light output: 658nm Typ.
- Optical output power: 85mW (CW), 310mW (Pulse)
- Low operating current:
- 90mA Typ. (80mW (CW))
- 245mA Typ. (300mW (Pulse))
- Operating temperature: +60°C (CW), +75°C (Pulse)
- Single transverse mode
- TE mode oscillation

### Application

- Sensor application
- Light source of optical equipment

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### Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Optical output power	P <sub>o</sub>	85	mW
Pulse optical output power	P <sub>o</sub> (Pulse)	310	mW
LD reverse voltage	V <sub>R(LD)</sub>	2	V
PD reverse voltage	V <sub>R(PD)</sub>	30	V
Operating temperature	T <sub>opr</sub> (CW)	-10 ~ +60	°C
Operating temperature	T <sub>opr</sub> (Pulse)	-10 ~ +75	°C
Storage temperature	T <sub>stg</sub>	-40 ~ +85	°C

### Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Threshold current	I <sub>th</sub>	-	30	50	mA	-
Operating current	I <sub>op</sub>	-	90	120	mA	P <sub>o</sub> =80mW
	I <sub>op</sub> (Pulse)	-	245	-	mA	P <sub>o</sub> (Pulse)=300mW Note 1
Operating voltage	V <sub>op</sub>	-	2.6	3.3	V	P <sub>o</sub> =80mW
Beam divergence Parallel to the junction	θ <sub>  </sub>	4	7.5	11	°	P <sub>o</sub> =80mW, FWHM
Beam divergence Perpendicular to the junction	θ <sub>⊥</sub>	11	15	19	°	P <sub>o</sub> =80mW, FWHM
Lasing wavelength	λ <sub>p</sub>	652	658	665	nm	P <sub>o</sub> =80mW
Monitor current	I <sub>s</sub>	0.1	0.6	1.5	mA	P <sub>o</sub> =80mW V <sub>R(PD)</sub> =5V

Note1) Pulse condition: Pulse width = 10nsec, duty = 10%

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