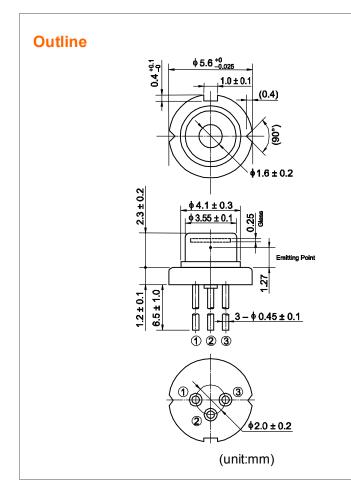
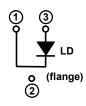
Data Sheet

HL63193MG

AlGalnP Laser Diode



Internal Circuit





638nm/700mW

Features:

- Shorter wavelength: 638nm Typ.
- High optical output power: 700mW
- Multi transverse mode
- TM mode oscillation

Applications:

- Laser projector
- Show Laser
- Light source of optical equipment



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Data Sheet

Absolute Maximum Ratings (Tc=25°C) Note1)

Item	Symbol	Ratings	Unit
Optical output power(1) (-10 to +30 °C) ^{Note2)}	Po (1)	700	mW
Optical output power(2) (+30 to +40 °C) Note2)	Po (2)	550	mW
Pulse optical output power Note2), 3), 4)	Po(Pulse)	1000	mW
LD Reverse Voltage	VR(LD)	2	V
Operating Temperature Note2)	Topr	-10 ~ +40	°C
Storage Temperature	Tstg	-40 ~ +85	°C

Note1) These values should not be exceeded under any conditions.

Note2) Operating temperature "Topr" is defined by Case temperature "Tc". LD chip temperature is getting higher during operation due to its high current density and small package. Thus, without proper heat dissipation less optical output power than specified one could be observed or it results to LD degradation. It is advised that sufficient heat dissipation should be taken not to exceed the maximum operating temperature during actual operation.

Note3) Pulse condition: Pulse frequency \geq 50Hz, duty \leq 33%

Note4) The long term reliability such as lifetime is not guaranteed.

Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Threshold current	lth	-	200	250	mA	-
Operating current	lop	-	820	1000	mA	Po=700mW
Operating voltage	Vop	-	2.2	2.6	V	Po=700mW
Beam divergence Parallel to the junction	θ//	1	9	20	o	Po=700mW, FWHM
Beam divergence Perpendicular to the junction	θ⊥	25	35	45	o	Po=700mW, FWHM
Lasing Wavelength	λρ	632	638	643	nm	Po=700mW

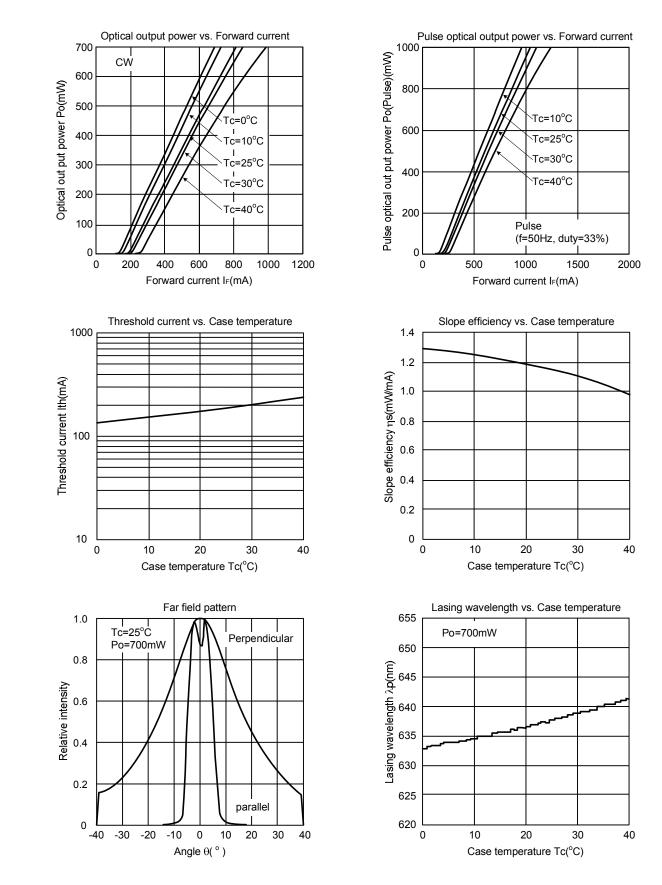


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Typical Characteristic Curves



Data Sheet



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Contact Information

www.oclaro.com

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adjustments or performance of procedures other than

those specified herein may result in hazardous radiation

tho

exposure

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