

GH0631IA2GC

Red Laser Diode

Red Laser Diode

■ Features

- (1) Wavelength : 638 nm(Typ.)
- (2) Optical power output :
CW 185mW
- (3) Oscillation transverse mode : Single mode
- (4) Φ 5.6mm CAN package

■ Applications

- (1) Display
- (2) Barcode scanner
- (3) Laser sensor
- (4) other application

■ Absolute Maximum Ratings

(Tc=25°C ※¹)

Parameter	Symbol	Ratings	Unit
Optical power output (Tc=25°C)	Po	185	mW
(※ ¹) (Tc=60°C)	Po	120	mW
Reverse voltage	Vr1	2	V
Operating temperature (※ ¹)	Top(c)	-10 ~ +60	°C
Storage temperature	Tstg	-40 ~ +85	°C
Soldering Temperature (※ ²)	Tsld	350	°C

※¹ Tc : Case temperature

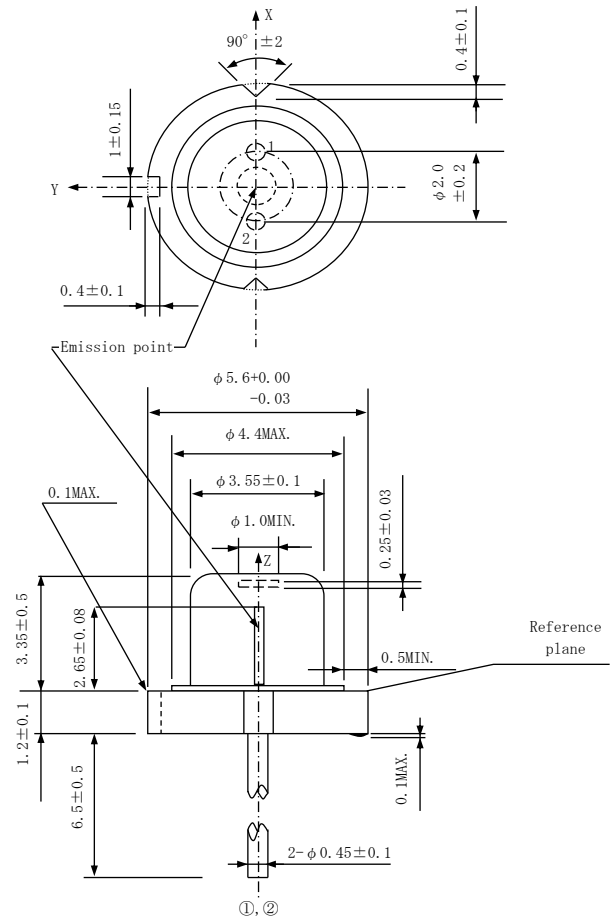
※² Soldering temperature means soldering iron tip temperature.

Soldering position is 1.6mm apart from bottom edge of the case.

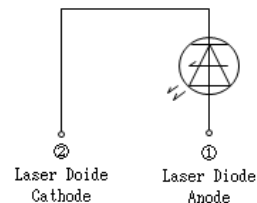
(Immersion time: ≤ 3s)

■ Outline Dimensions

(Unit: mm)



[Terminal connection]



(Notice)

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■ Specifications

(Tc=25°C ※¹ ※²)

Parameter	Symbol	Contitions	MIN.	TYP.	MAX.	Unit	
Threshold current	I _{th}	-	-	70	-	mA	
Operating current	I _{op}	P _o =180mW	-	215	-	mA	
Operating voltage	V _{op}		-	2.55	-	V	
Wavelength	λ _p		635	638	643	nm	
Half intensity angle	Parallel		θ //	4	8	12	°
	※ ³ ※ ⁴ Perpendicular		θ ⊥	8	13	18	°

※¹ T_c : Case temperature

※² Initial value, Continuous Wave Operation

※³ Angle of 50% peak intensity (Full angle at half-maximum)

※⁴ Parallel to the junction plane (X-Z plane)
Perpendicular to the junction plane (Y-Z plane)

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(Precautions)

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- * OA equipment * Audio visual equipment * Home appliance
- * Telecommunication equipment (Terminal) * Measuring equipment
- * Tooling machines * Computers

If the use of the product in the above application areas is for equipment listed in paragraphs (3) or (4), please be sure to observe the precautions given in those respective paragraphs.

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- * Transportation control and safety equipment (aircraft, train, automobile etc.)
- * Traffic signals * Gas leakage sensor breakers * Rescue and security equipment
- * Other safety equipment

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- * Space equipment * Telecommunication equipment (for trunk lines)
- * Nuclear power control equipment * Medical equipment

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