

GH0631IA2GC

Red Laser Diode

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■ Features

- (1) Wavelength : 638 nm(Typ.)
- (2) Optical power output :
CW 185mW
- (3) Oscillation transverse mode : Single mode
- (4) Φ5.6mm 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	Po	(Tc=25°C)	185
		(Tc=60°C) ※ ¹	120
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

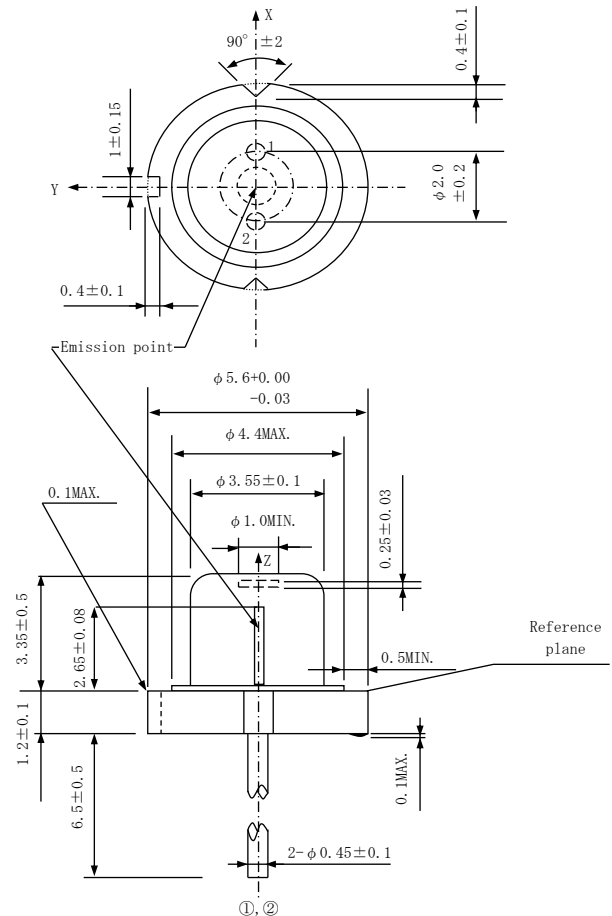
※² Soldering temperature means soldering iron tip temperature.

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

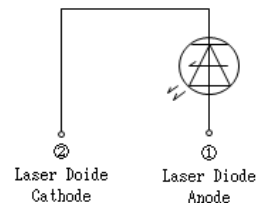
(Immersion time: ≤ 3s)

■ Outline Dimensions

(Unit : mm)



[Terminal connection]



(Notice)

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■ Specifications

(Tc=25°C ※¹ ※²)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit	
Threshold current	I _{th}	-	-	70	-	mA	
Operating current	I _{op}	Po=180mW	-	215	-	mA	
Operating voltage	V _{op}		-	2.55	-	V	
Wavelength	λ _p		633	638	643	nm	
Half intensity angle	Parallel		θ //	4	8	12	°
	※ ³ ※ ⁴ Perpendicular		θ ⊥	8	13	18	°

※¹ Tc : 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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- * OA equipment * Audio visual equipment * Home appliance
- * Telecommunication equipment (Terminal) * Measuring equipment
- * Tooling machines * Computers

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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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