

## GH06C01A9G

## Red Laser Diode

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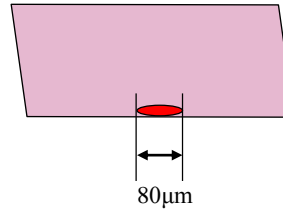
#### ■ Features

- (1) Wavelength : 640 nm(Typ.)
- (2) Optical power output : CW 1.2W (Tc=25°C)
- (3) Emitter size : 1 × 80μm (※1)
- (4) Oscillation transverse mode : Multi mode
- (5) Φ9mm CAN package

#### ■ Applications

- (1) Display
- (2) other application

※1 Emitter size



#### ■ Absolute Maximum Ratings

(Tc=25°C (※<sup>1</sup>))

Parameter	Symbol	Value	Unit
Optical power output (※ <sup>1</sup> )	(Tc=25°C) Po	1.2	W
	(Tc=45°C) Po	0.8	W
Reverse voltage	Vrl	2	V
Operating temperature (※ <sup>1</sup> )	Top(c)	-10 ~ +45	°C
Storage temperature	Tstg	-40 ~ +85	°C
Soldering temperature (※ <sup>2</sup> )	Tsld	350	°C

※<sup>1</sup> Tc : Case temperature (Frame heat radiation part temperature)

※<sup>2</sup> Soldering temperature means soldering iron tip temperature while soldering.

Soldering position is 1.6mm apart from bottom edge of the case.(Immersion time: ≤3s)

#### ■ Specifications

(Tc=25°C ※<sup>1</sup> ※<sup>2</sup>)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Threshold current	Ith	-	-	0.38	-	A	
Operating current	Iop	Po=1.2W	-	1.4	-	A	
Operating voltage	Vop		-	2.25	-	V	
Half intensity angle ※ <sup>3</sup> ※ <sup>4</sup>	Parallel		θ //	-	5	-	°
	Perpendicular		θ ⊥	-	36	-	°
Wavelength	λp		635	640	645	nm	

※<sup>1</sup> Tc : Case temperature

※<sup>2</sup> Initial value, Continuous Wave Oper:

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

※<sup>4</sup> Parallel to the junction plane(X-Z plane)

Perpendicular to the junction plane(Y-Z plane)

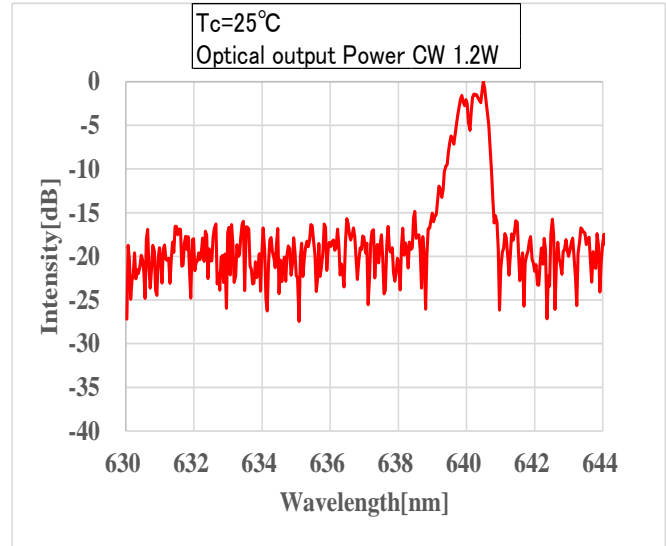
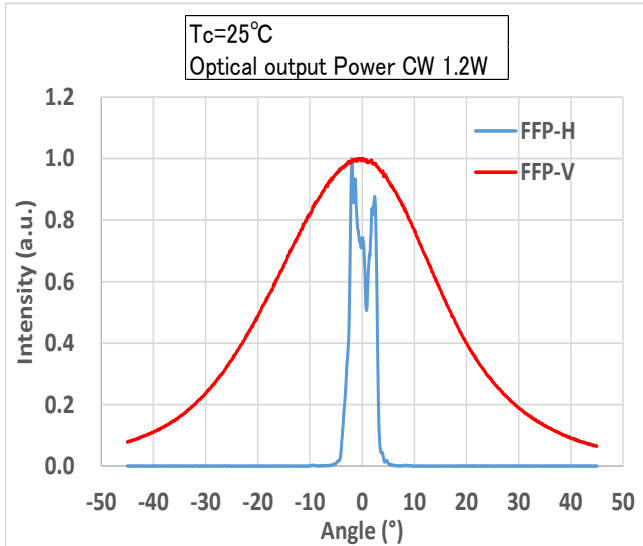
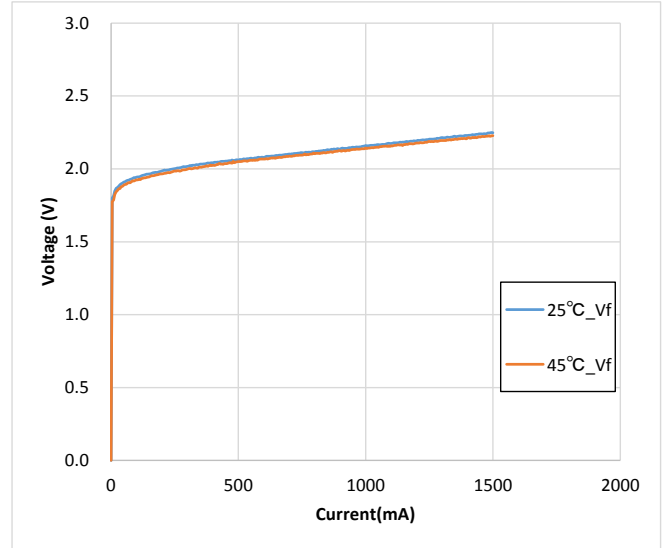
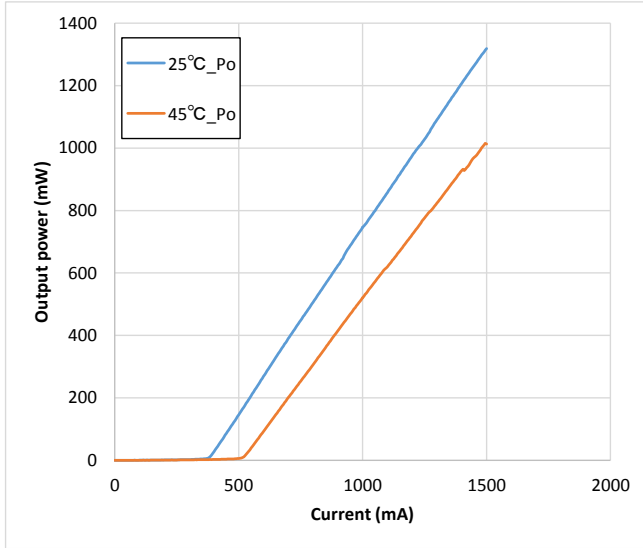
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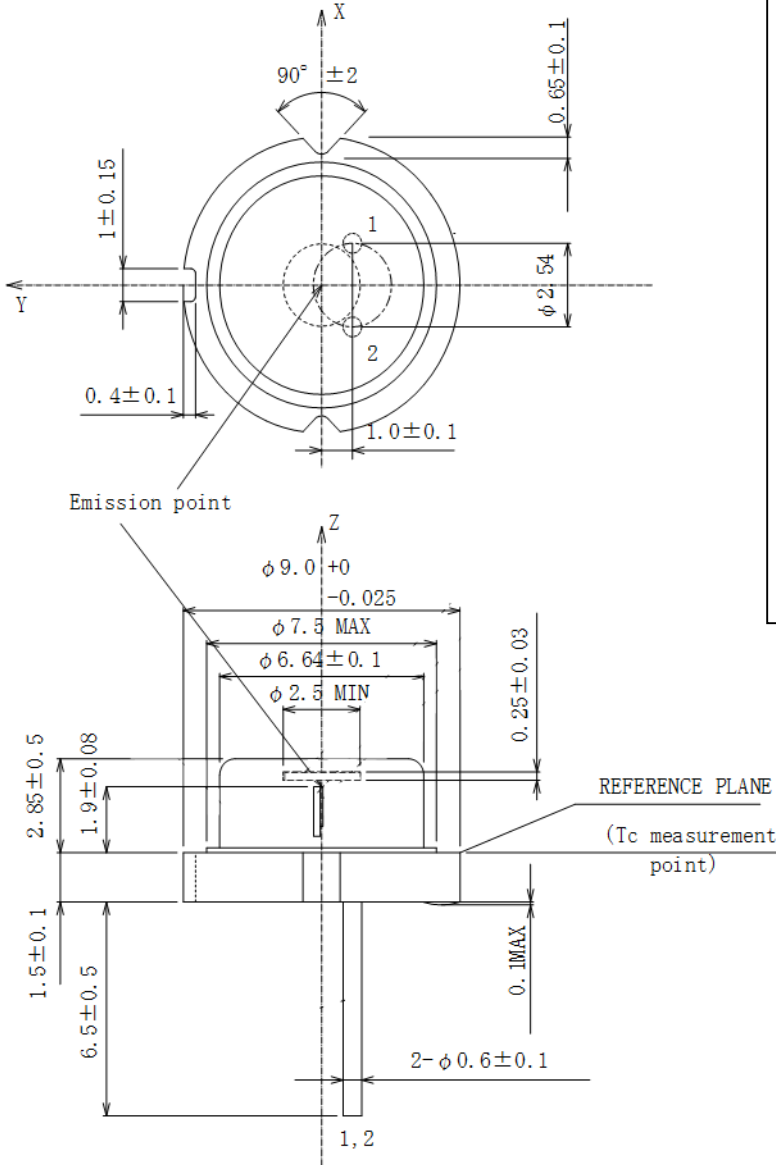
### ■ Characteristic



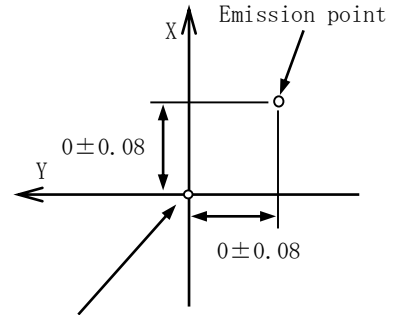
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### ■ Outline Dimensions

(Unit: mm)

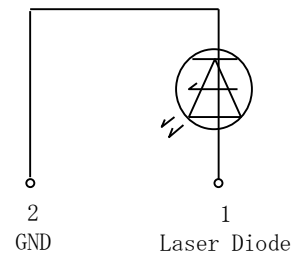


Enlarged drawing around the emission point



Center of the imaginary circle which goes through the three point around the stem

[ Terminal connection ]



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