

# PRODUCT SPECIFICATION

## Model No.: FYL-8013UBC1B

Descriptions:
■ Dice material: InGaN.
■ Emitting Color: Super bright Blue.
■ Device Outline: Φ8mm Round Type.
■ Lens Type: Water clear.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

**NINGBO FORYARD OPTOELECTRONICS CO.,LTD.**

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**Zip:** 315051

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**Fax:** 0086-574-87927917

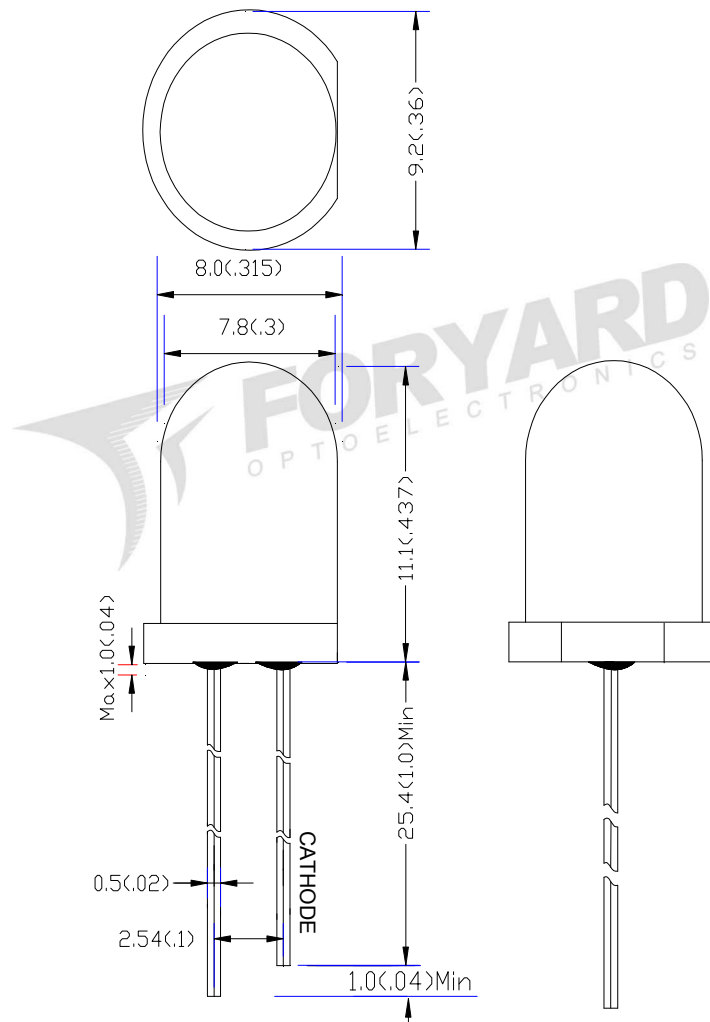
**E-mail:** Sales@foryard.com (General)

[Http://www.foryard.com](http://www.foryard.com)

■ Features

1. Low power consumption.
2. High efficiency.
3. General purpose leads.
4. High intensity.
5. RoHs compliant.

■ Package configuration



Notes:

1. All dimensions are millimeters (inches)
2. Tolerance is  $\pm 0.25\text{mm}$  (.010") unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

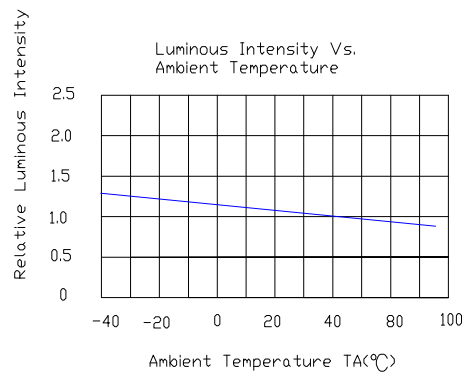
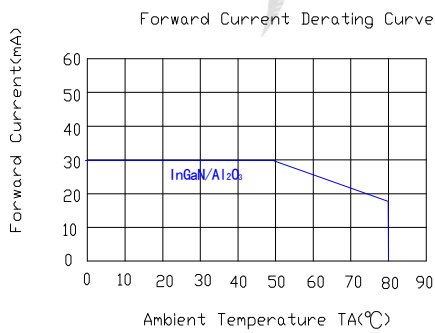
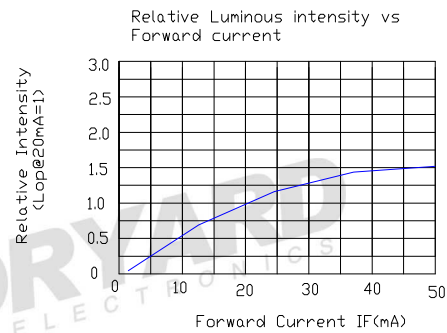
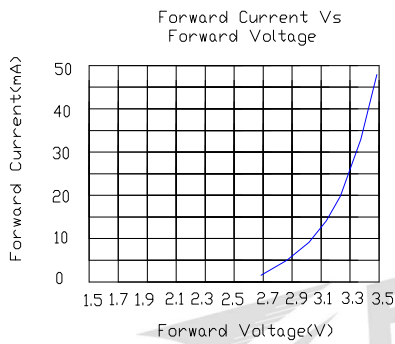
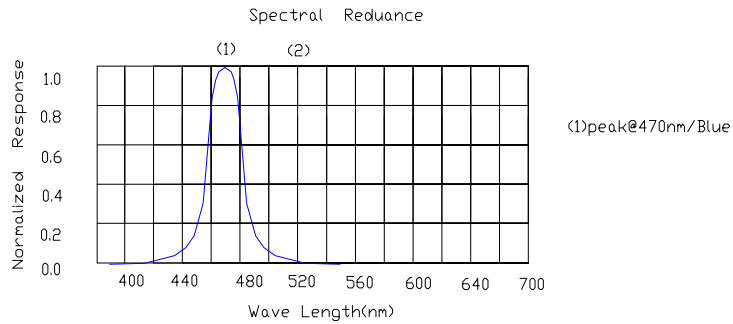
■ Absolute maximum ratings( $T_a=25\text{ }^{\circ}\text{C}$ )

Parameter	MAX.	Unit
Power Dissipation	90	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	25	mA
Derating Linear From 50 $^{\circ}\text{C}$	0.4	mA/ $^{\circ}\text{C}$
Reverse Voltage	5	V
Operating Temperature Range	-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$	
Storage Temperature Range	-40 $^{\circ}\text{C}$ to +100 $^{\circ}\text{C}$	
Lead Soldering Temperature[4mm(.157") From Body]	260 $^{\circ}\text{C}$ for 5 Seconds	

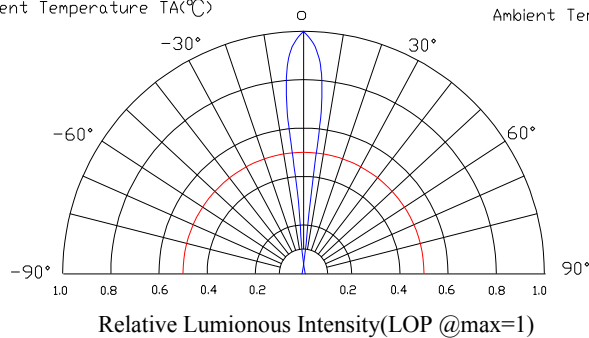
■ Electrical and optical characteristics( $T_a=25\text{ }^{\circ}\text{C}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_v$	-	5000	-	mcd	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$	-	15	-	Deg	
Peak Emission Wavelength	$\lambda_p$	-	470	-	nm	
Dominant Wavelength	$\lambda_d$	464	468	474	nm	
Spectral Line Half-Width	$\Delta\lambda$	-	30	-	nm	
Forward Voltage	$V_F$	2.8	3.2	3.6	V	
Reverse Current	$I_R$			10	$\mu\text{A}$	$V_R=5\text{V}$

■ **Typical Electrical Characteristics Curves**  
**(25 °c Ambient Temperature Unless Otherwise Noted)**

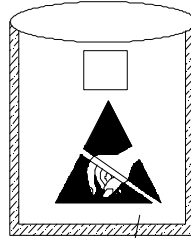


**Radiation pattern.**

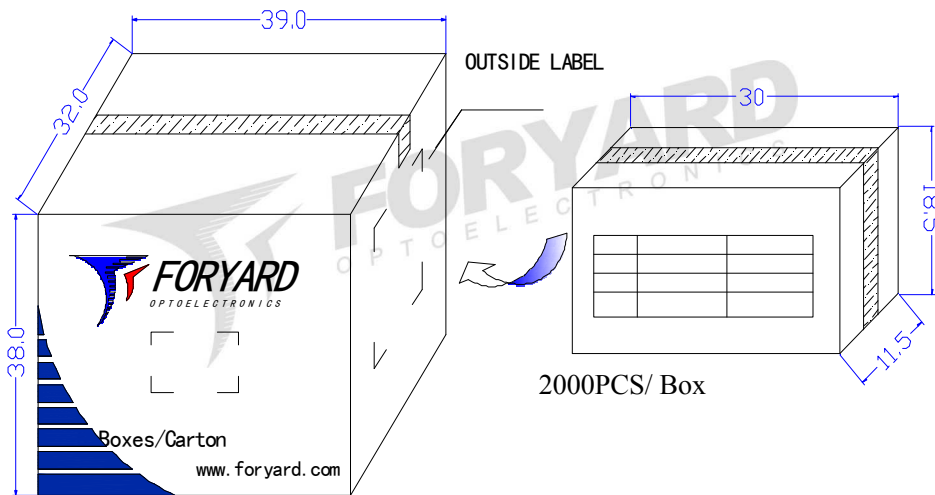
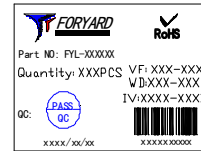


Model. No.	FYL-8013UBC1B
Rev.	A

■ LAMP PACKING.



8mm 250PCS/Polybag



16000PCS/ Carton



OUTSIDE LABEL