

# PRODUCT SPECIFICATION

**Model No.: FYL-Z3012UBD1A-45**

Descriptions:
■ Dice material: InGaN.
■ Emitting Color: Super Bright Blue.
■ Device Outline: Φ3mm Round Type.
■ Lens Type: Blue diffused.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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

**Add:** NO.115 Qixin Road Ningbo Zhejiang China

**Zip:** 315051

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**Fax:** 0086-574-87927917

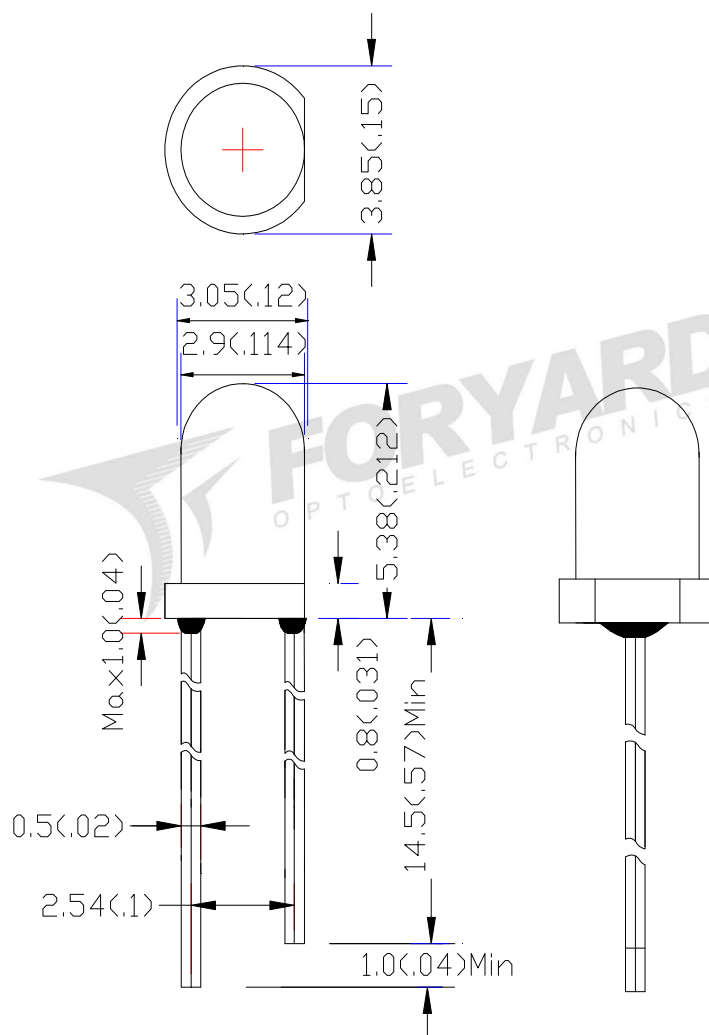
**E-mail:** Sales@foryard.com (General)

[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.

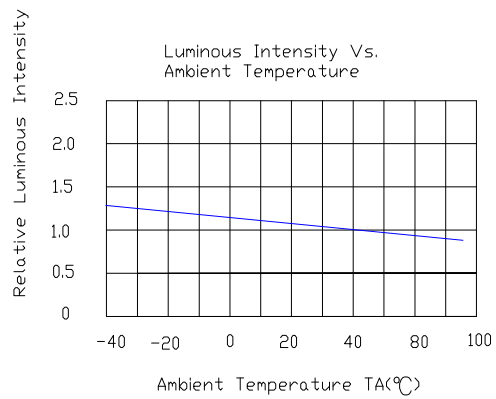
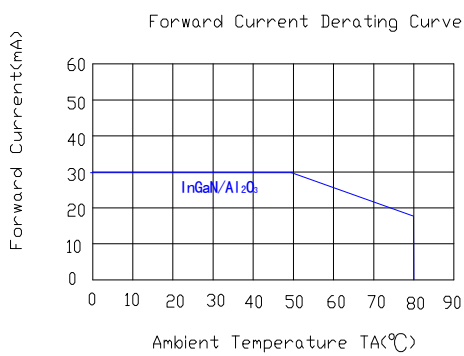
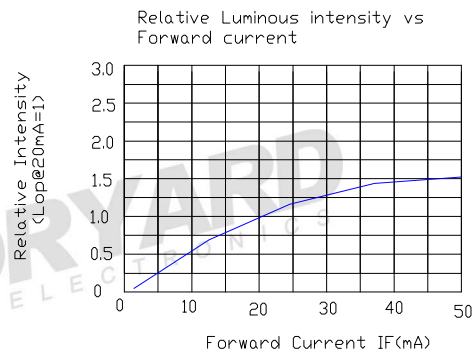
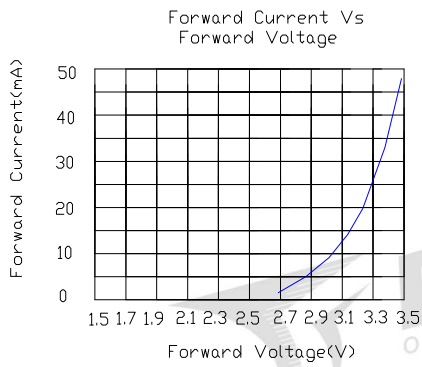
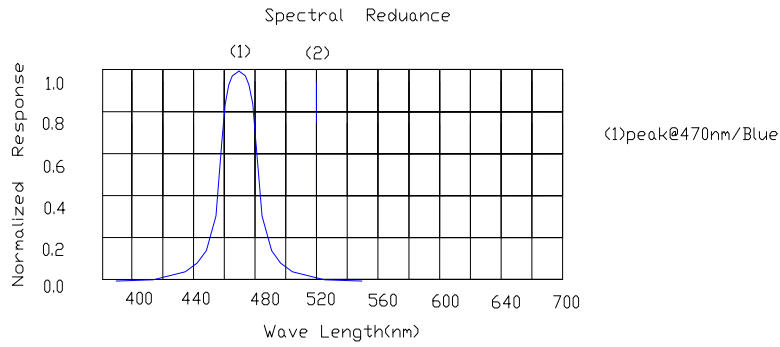
■ Absolute maximum ratings(Ta=25 ° c)

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°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature[4mm(.157") From Body]	260°C for 5 Seconds	

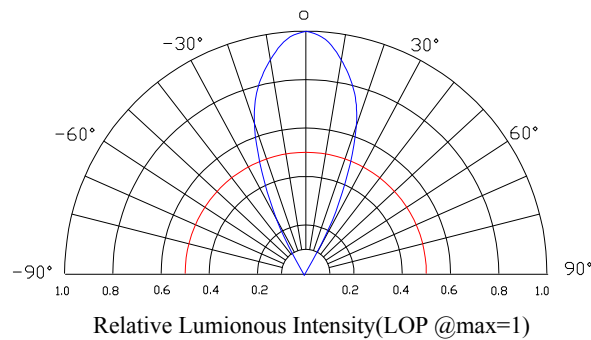
■ Electrical and optical characteristics(Ta=25 ° c)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	-	500	-	mcd	I <sub>F</sub> =20mA
Viewing Angle	2θ <sub>1/2</sub>	-	45	-	Deg	
Peak Emission Wavelength	λ <sub>p</sub>	-	470	-	nm	
Dominant Wavelength	λ <sub>d</sub>	464	468	474	nm	
Spectral Line Half-Width	Δλ	-	30	-	nm	
Forward Voltage	V <sub>F</sub>	2.8	3.2	3.6	V	I <sub>R</sub> =10 mA
Reverse Voltage	V <sub>Z</sub>	3		5	V	

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

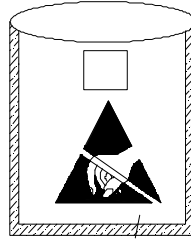


**Radiation pattern.**

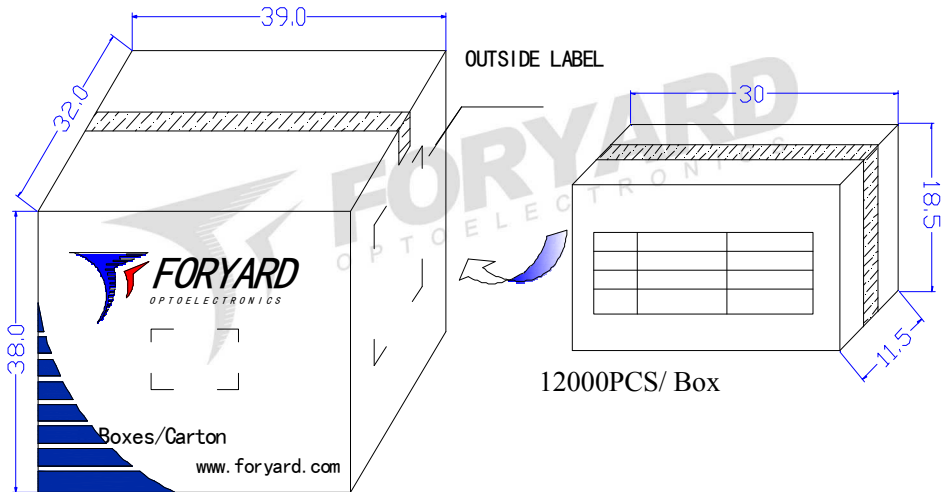
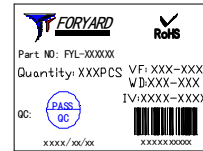


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Rev.	A

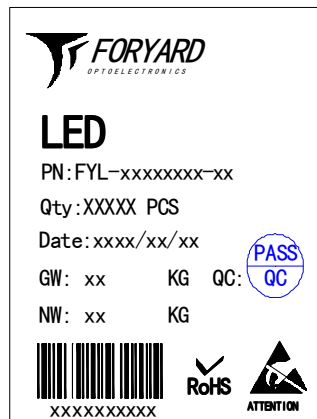
■ LAMP PACKING.



3mm 1000PCS/Polybag



72000PCS/ Carton



OUTSIDE LABEL