



# PRODUCT SPECIFICATION

**Model No.: FYL-3014UBC1A-1mA-TR13**

Descriptions:
<ul style="list-style-type: none"> <li>■ Dice material: InGaN.</li> <li>■ Emitting Color: Super Bright Blue.</li> <li>■ Device Outline: Φ3mm round type.</li> <li>■ Lens Type: Water clear.</li> </ul>



CUSTOMER APPROVED SIGNATURES	APPROVED BY	SALES BY	PREPARED BY
			

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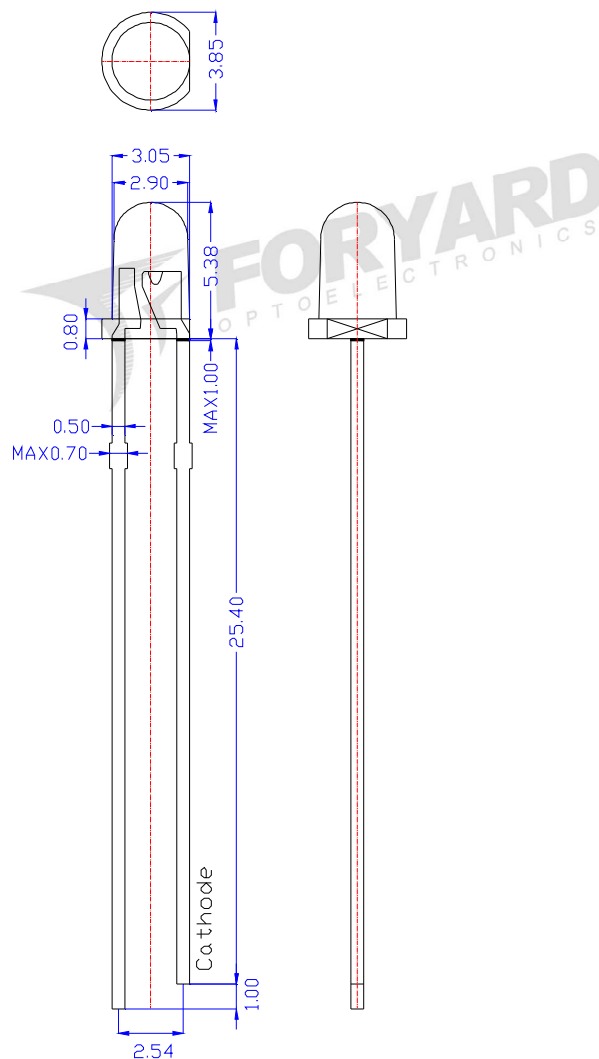
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### ■ Features

- 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.
4. The drawing is different from the actual one, please refer to the sample.

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**■ Absolute Maximum Ratings(Ta=25°C)**

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	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	

**■ Typical Electrical & Optical Characteristics(Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_v$	150	350	700	mcd	IF=1mA
Viewing Angle	$2\theta_{1/2}$	---	25	---	Deg	
Peak Emission Wavelength	$\lambda_p$	---	470	--	nm	
Dominant Wavelength	$\lambda_d$	467	475	479	nm	
Spectral Line Half-Width	$\Delta\lambda$	---	30	--	nm	
Forward Voltage	$V_F$	2.2	2.6	3	V	VR=5V
Reverse Current	$I_R$	---	---	10	$\mu A$	

Note:

- 1.Luminous Intensity is based on the Foryard standards.
- 2.Pay attention about static for InGaN

**■ Luminous Intensity Guide (Unit: mcd) @IF=1mA**

Code	N11	N12	N13	N14
Luminous Intensity(mcd)	150~230	230~350	350~500	500~700

Tolerance of measurement of luminous intensity is  $\pm 15\%$

**■ Dominate Wavelength Guide (Unit: nm) @IF=1mA**

Code	B5	B6	B7	B8
Dominate Wavelength(nm)	467~470	470~473	473~476	476~479

Tolerance for each Dominate Wavelength bin is  $\pm 1nm$

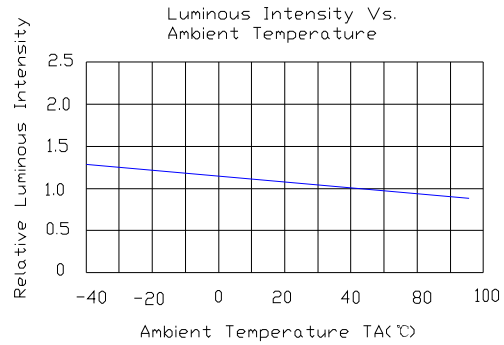
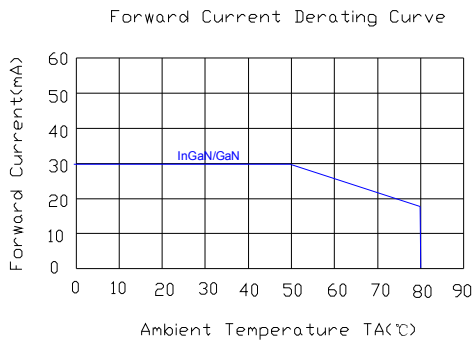
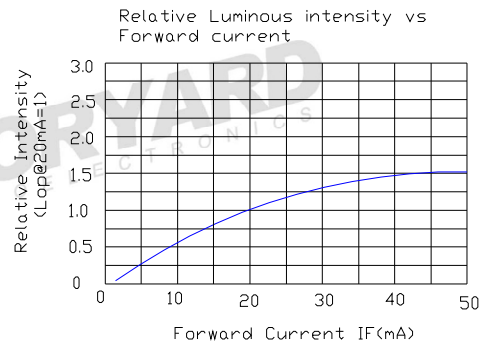
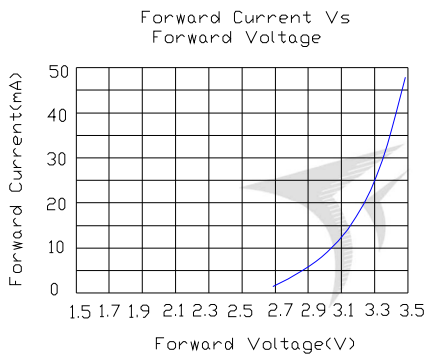
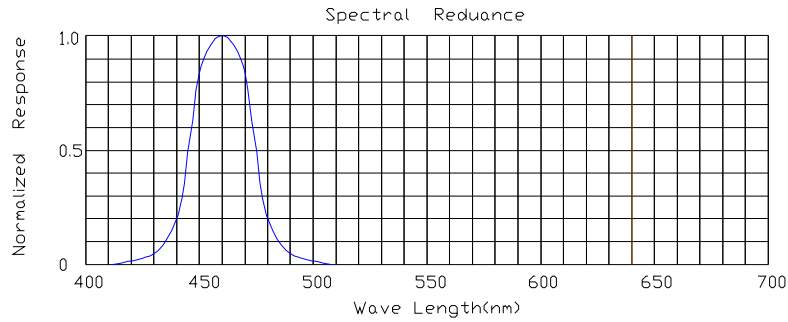
**■ Forward Voltage Guide (Unit: V) @IF=1mA**

Code	V4	V5	V6	V7
Forward Voltage(V)	2.2~2.4	2.4~2.6	2.6~2.8	2.8~3.0

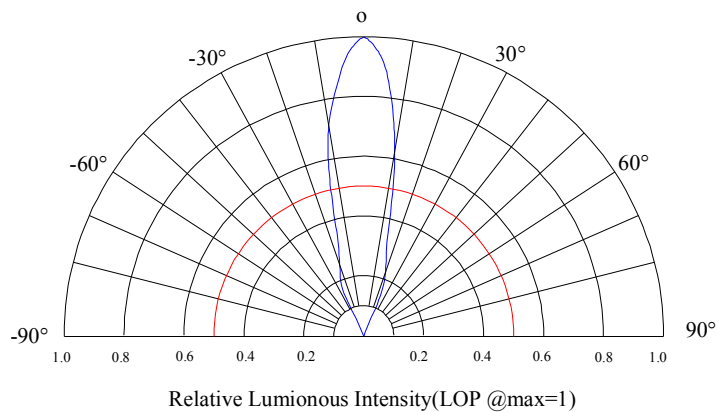
Tolerance of measurement of forward voltage is  $\pm 0.1V$

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■ Typical Electrical/Optical Characteristics Curves(Ta=25°C Unless Otherwise Noted)

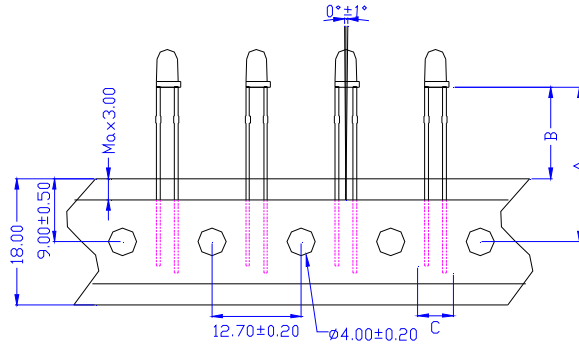


■ Radiation pattern



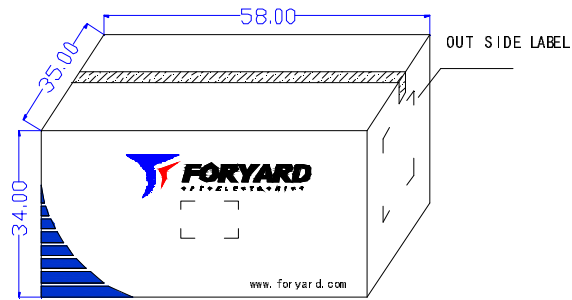
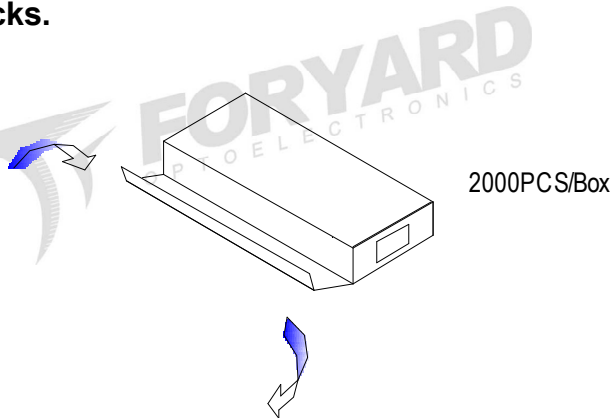
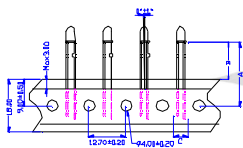
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■ Ammo packs drawing.

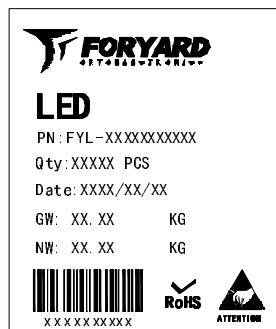


**A:22.0mm±0.5mm, B:13.0±0.5mm, C:2.54mm±0.05mm**

■ Packaging box for ammo packs.



12 boxes/carton



OUTSIDE LABEL

Note: The specifications are subject to change without notice. Please contact us for updated information.