

PRODUCT SPECIFICATION

Model No.: FYL-5019URUBW1C-CA

Descriptions:
<ul style="list-style-type: none"> ■ Dice material: AlGaInP;InGaN. ■ Emitting Color: Super Bright Red;Super Bright Blue. ■ Device Outline: Φ5mm round type. ■ Lens Type: White Diffused.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

NINGBO FORYARD OPTOELECTRONICS CO.,LTD.

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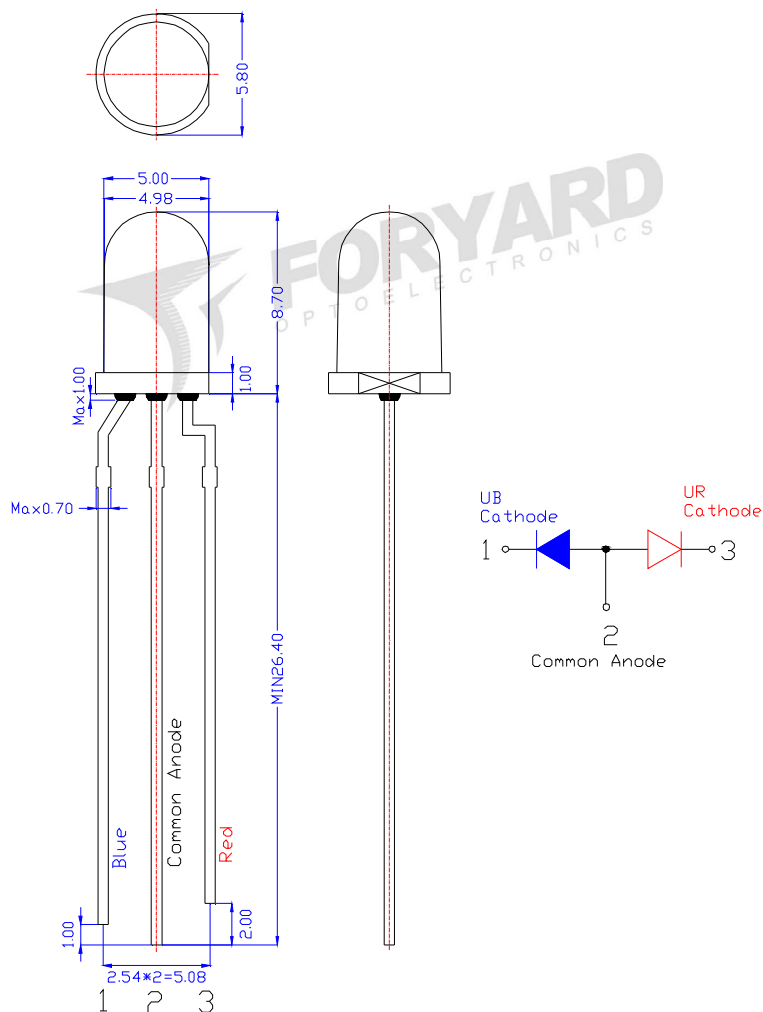
E-mail:Sales@foryard.com (General)

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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 Maximun Ratings(Ta=25°C)

Parameter	MAX.		Unit
	UR	UB	
Power Dissipation	75	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	100	mA
Continuous Forward Current	30	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 Charcteristics(Ta=25°C)

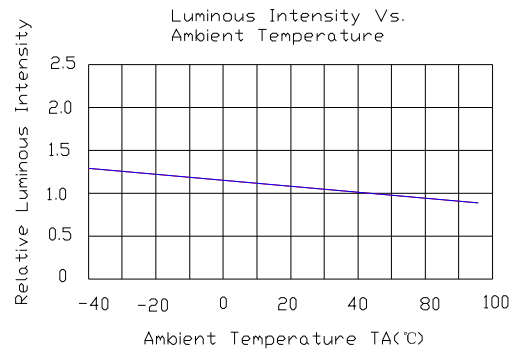
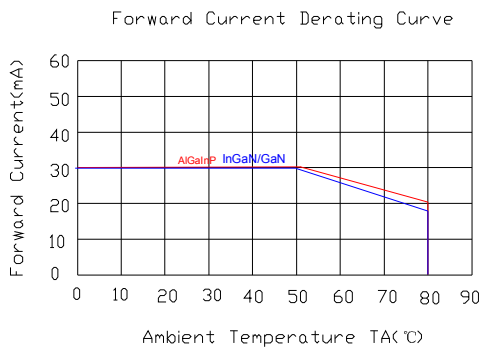
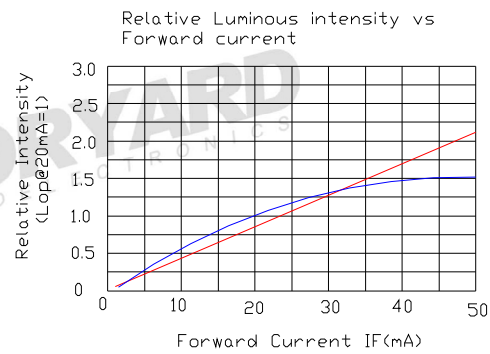
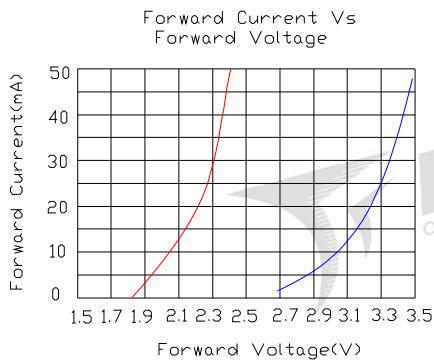
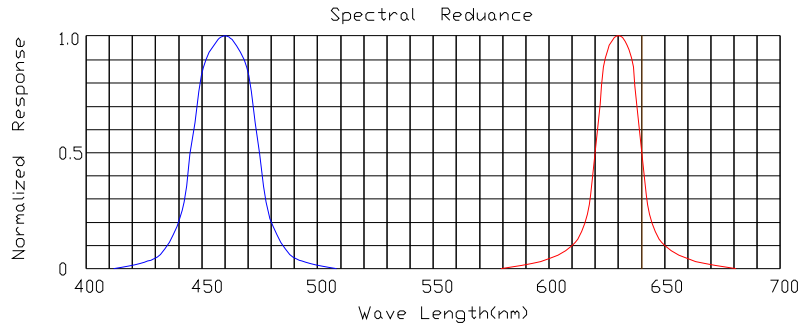
Parameter	Symbol	Colour	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	UR	600	1200	1800	mcd	IF=20mA
		UB	600	1200	1800		
Viewing Angle	$2\theta_{1/2}$	UR	---	40	---	Deg	
		UB	---	40	--		
Peak Emission Wavelength	λ_p	UR	---	630	--	nm	
		UB	---	470	--		
Dominant Wavelength	λ_d	UR	618	625	630	nm	
		UB	465	470	475		
Spectral Line Half-Width	$\Delta\lambda$	UR	---	20	--	nm	
		UB	---	30	--		
Forward Voltage	V_F	UR	1.8	2.1	2.4	V	
		UB	2.6	3.1	3.6		
Reverse Current	I_R		---	---	10	μA	VR=5V

Note:

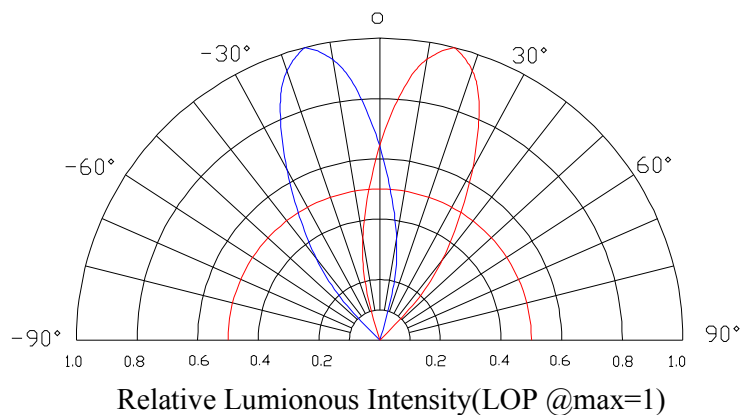
- 1.Luminous Intensity is based on the Foryard standards.
- 2.Pay attention about static for InGaN

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

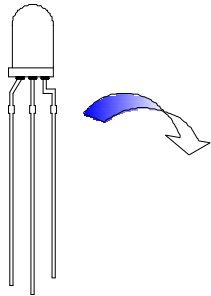


■ Radiation pattern

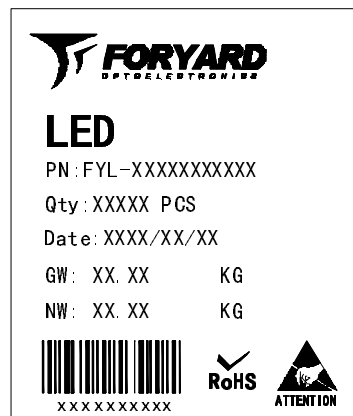
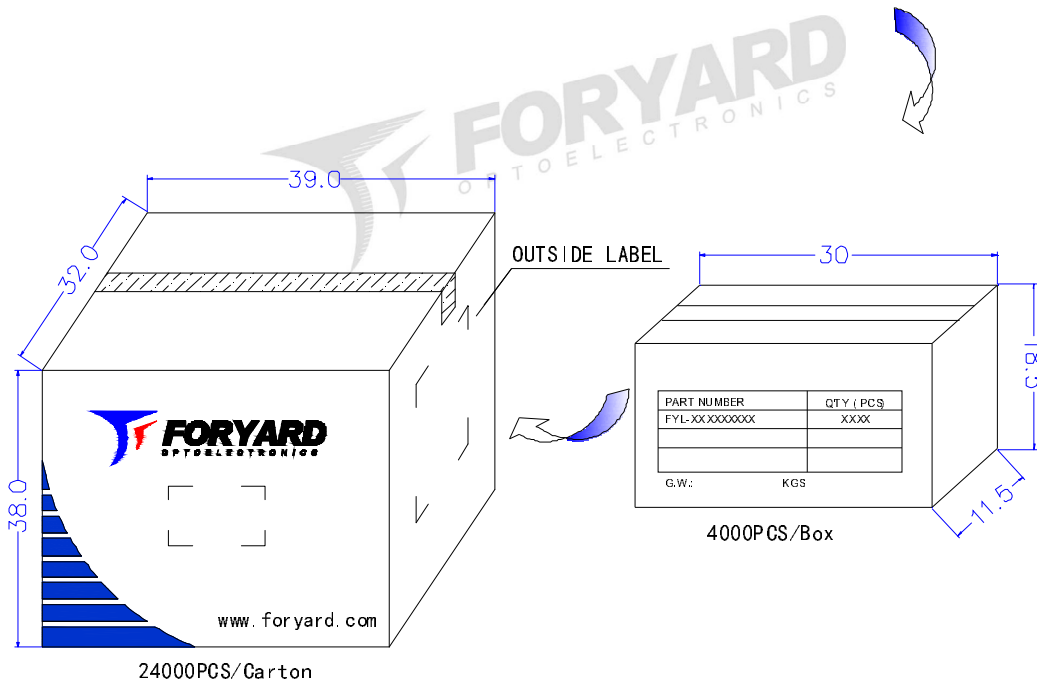


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■ LAMP PACKING.



5mm 500PCS/Polybag



OUTSIDE LABEL

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