

## PRODUCT SPECIFICATION

**Model No.: FYL-5019RBGW1C-CA**

Descriptions:
■Dice material: AlGaInP/ InGaN /InGaN
■Emitting Color: Red /Blue/ Pure green
■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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**Zip:**315051

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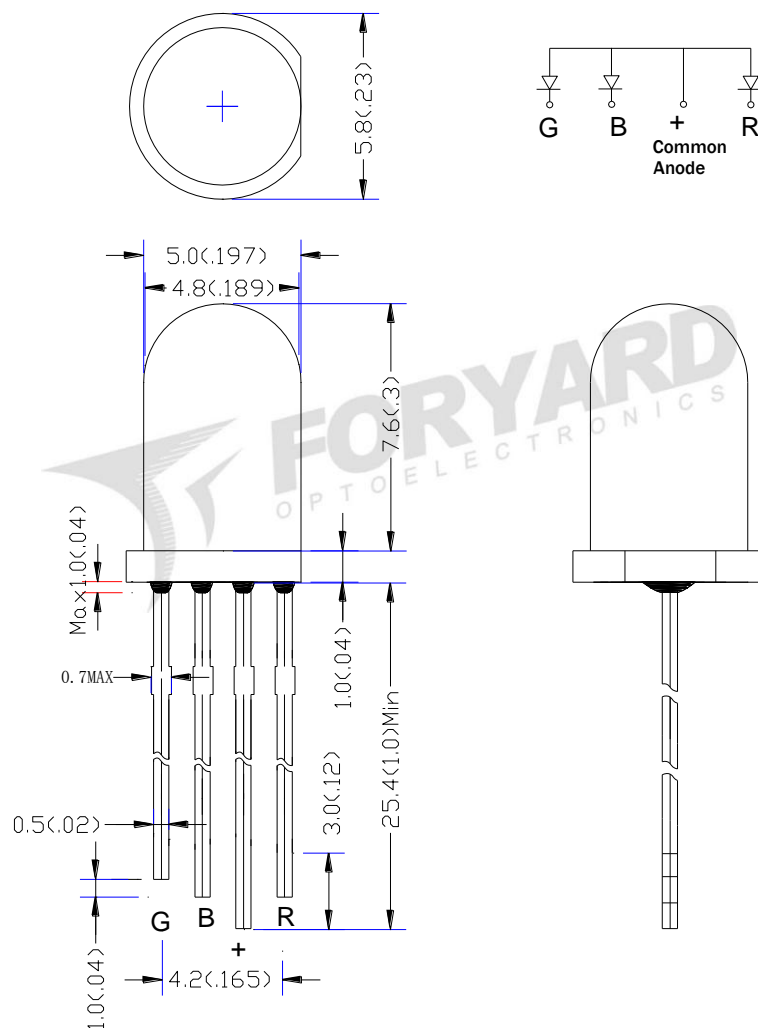
**E-mail:** Sales@foryard.com (General)

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

## ■ Features

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

## ■ Package configuration



### Notes:

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

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

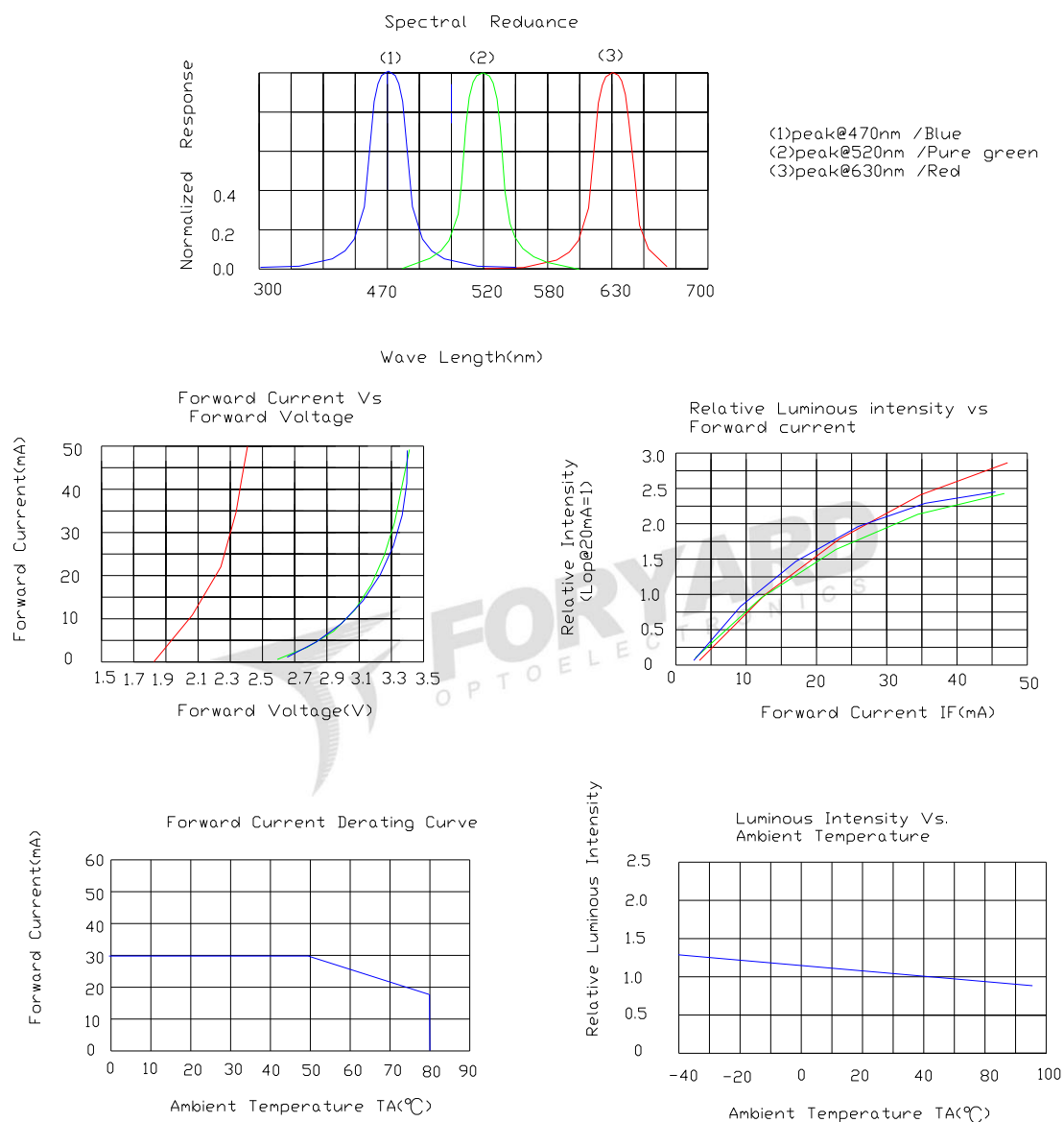
Parameter	MAX.	Unit
Power Dissipation	120	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	UR 50	mA
	UB 30	
	PG 30	
Derating Linear From $50^{\circ}\text{C}$	0.4	mA/ $^{\circ}\text{C}$
Reverse Voltage	5	V
Operating Temperature Range	$-40^{\circ}\text{C}$ 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( $T_a=25^{\circ}\text{C}$ )

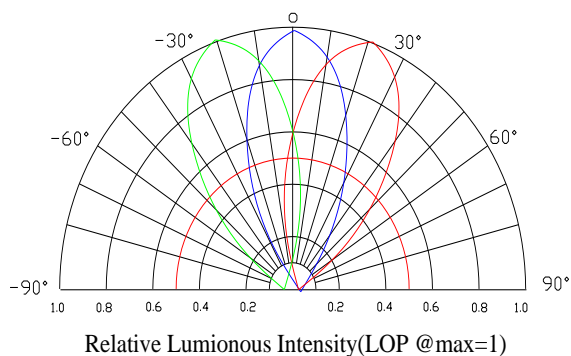
Parameter	Symbol		Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	UR	—	700	—	mcd	I <sub>F</sub> =20mA
		PG	—	2500	—		
		UB	—	500	—		
Viewing Angle	2θ <sub>1/2</sub>		—	60	—	Deg	
Peak Emission Wavelength	λ <sub>p</sub>	UR		630		nm	
		PG		520			
		UB		470			
Dominant Wavelength	λ <sub>d</sub>	UR	618	625		nm	
		PG	515	520			
		UB	464	470			
Spectral Line Half-Width	Δλ	UR		15		nm	
		PG		30			
		UB		30			
Forward Voltage	V <sub>F</sub>	UR	1.8	2.2	—	V	
		PG	3.0	3.2	—		
		UB	3.0	3.2	—		
Reverse Current	I <sub>R</sub>				10	μA	V <sub>R</sub> =5V

## ■ Typical Electrical Characteristics Curves

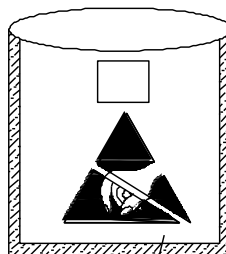
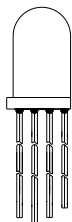
(25 ° c Ambient Temperature Unless Otherwise Noted)



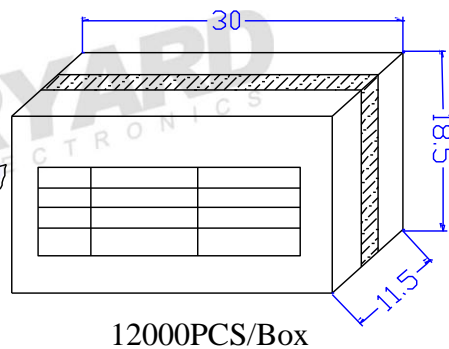
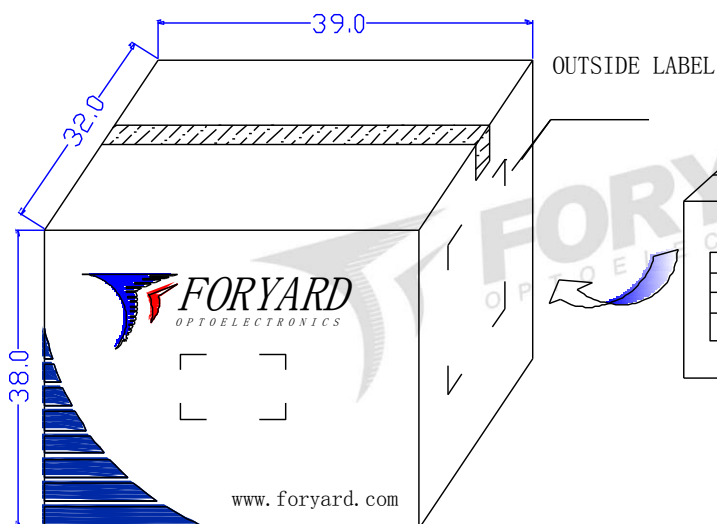
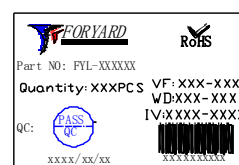
## Radiation pattern.



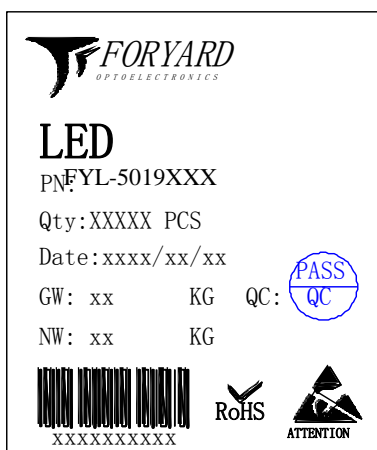
## ■ LAMP PACKING.



5mm 1000PCS/Polybag



72000PCS/Carton



OUTSIDE LABEL