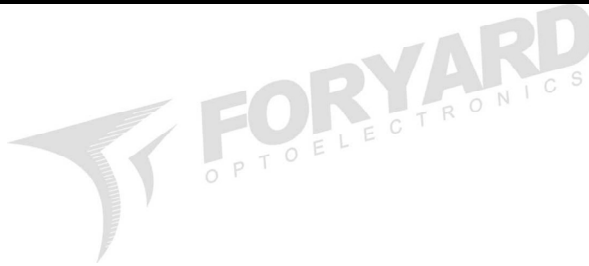


PRODUCT SPECIFICATION

Model No.: FYL-5019URPGUBC1C-CA

Descriptions:

- Dice material: AlGaInP;InGaN;InGaN.
- Emitting Color: Super Bright Red;Super Bright Pure Green;Super Bright Blue.
- Device Outline: Φ5mm round type.
- Lens Type: Water clear.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

NINGBO FORYARD OPTOELECTRONICS CO.,LTD.

Add:No. 666 Jinghua Road, Hi-tech Park, Ningbo, Zhejiang, China

Zip:315103

Tel: 0086-574-87933652 87922206 87927870

Fax: 0086-574-87927917

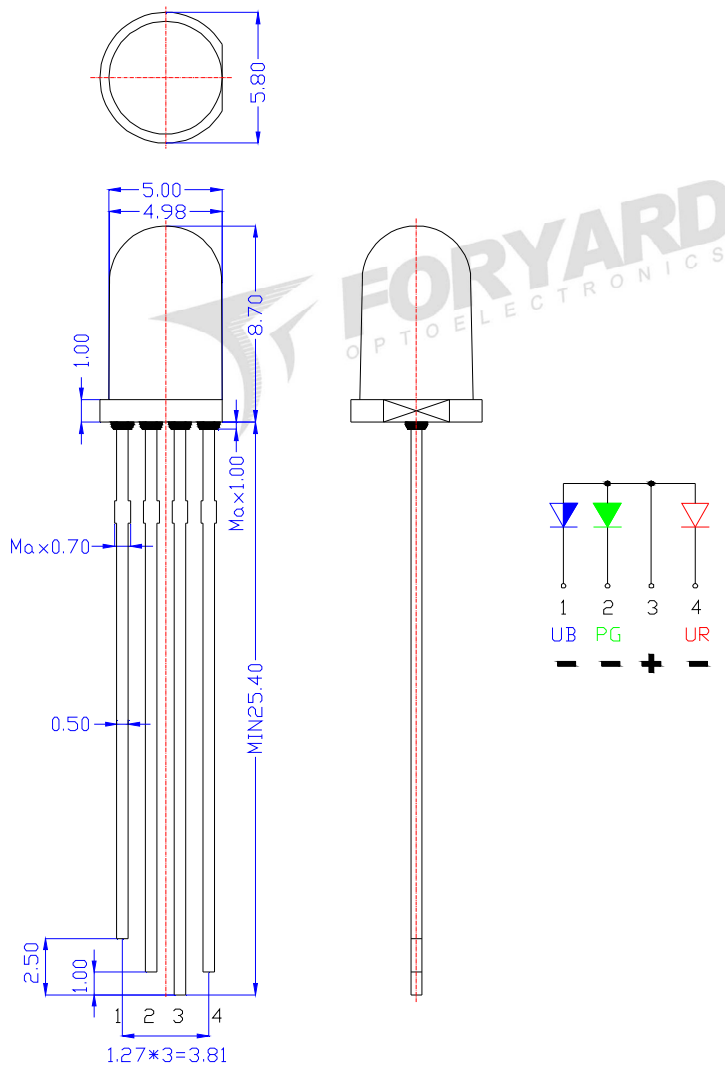
E-mail:Sales@foryard.com (General)

Model No.: FYL-5019URPGUBC1C-CA

■ 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.

Model No.: FYL-5019URPGUBC1C-CA

■ Absolute Maximun Ratings(Ta=25°C)

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

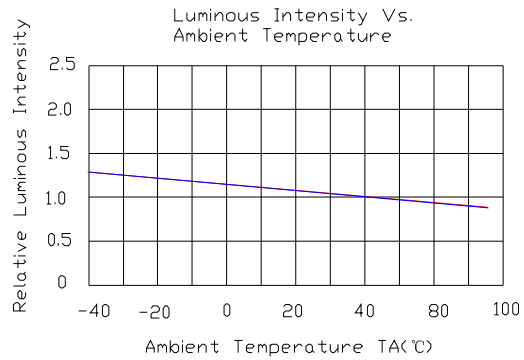
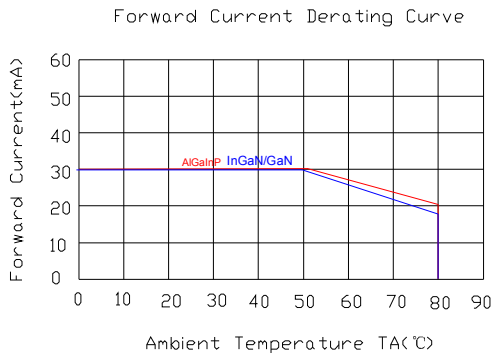
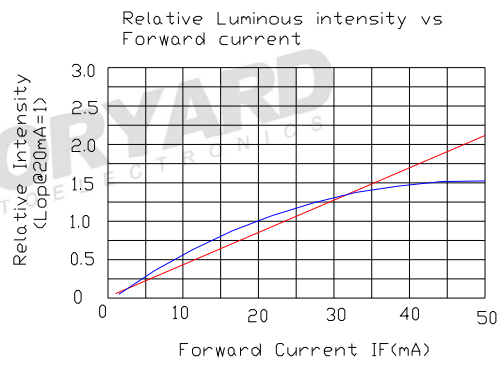
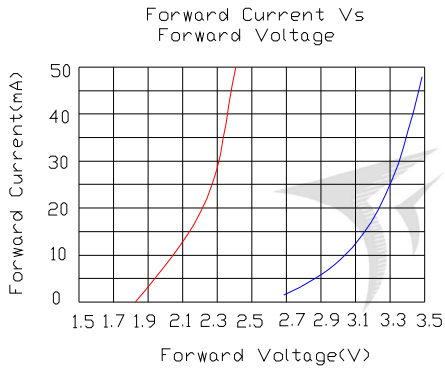
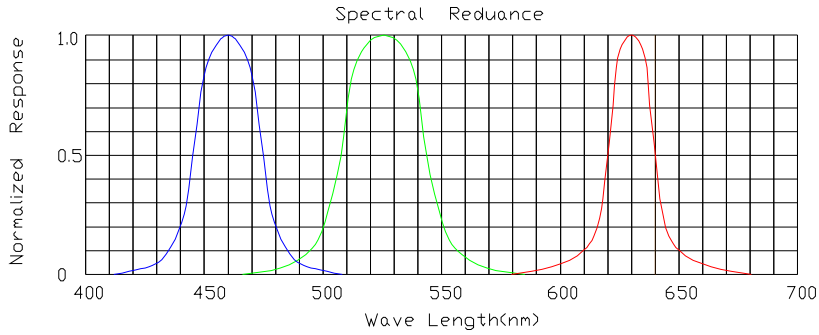
Parameter	Symbol	Colour	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	UR	---	3000	---	mcd	IF=20mA
		PG		8000			
		UB	---	1500	---		
Viewing Angle	$2\theta_{1/2}$	UR	---	45	---	Deg	
		PG		45			
		UB	---	45	--		
Peak Emission Wavelength	λ_p	UR	625	630	635	nm	
		PG	515	520	525		
		UB	460	465	470		
Dominant Wavelength	λ_d	UR	620	625	635	nm	
		PG	520	525	530		
		UB	465	470	475		
Spectral Line Half-Width	$\Delta\lambda$	UR	15	20	25	nm	
		PG	30	35	40		
		UB	20	25	30		
Forward Voltage	V_F	UR	1.8	2.1	2.6	V	
		PG	2.6	3.0	3.6		
		UB	2.6	3.0	3.6		
Reverse Current	I_R		---	---	10	μA	VR=5V

Note:

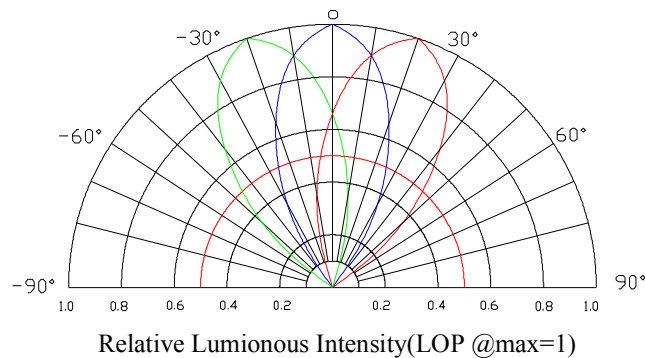
- 1.Luminous Intensity is based on the Foryard standards.
- 2.Pay attention about static for InGaN

Model No.: FYL-5019URPGUBC1C-CA

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

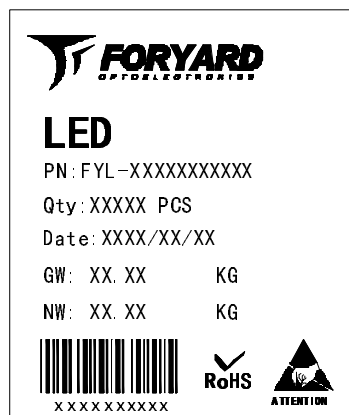
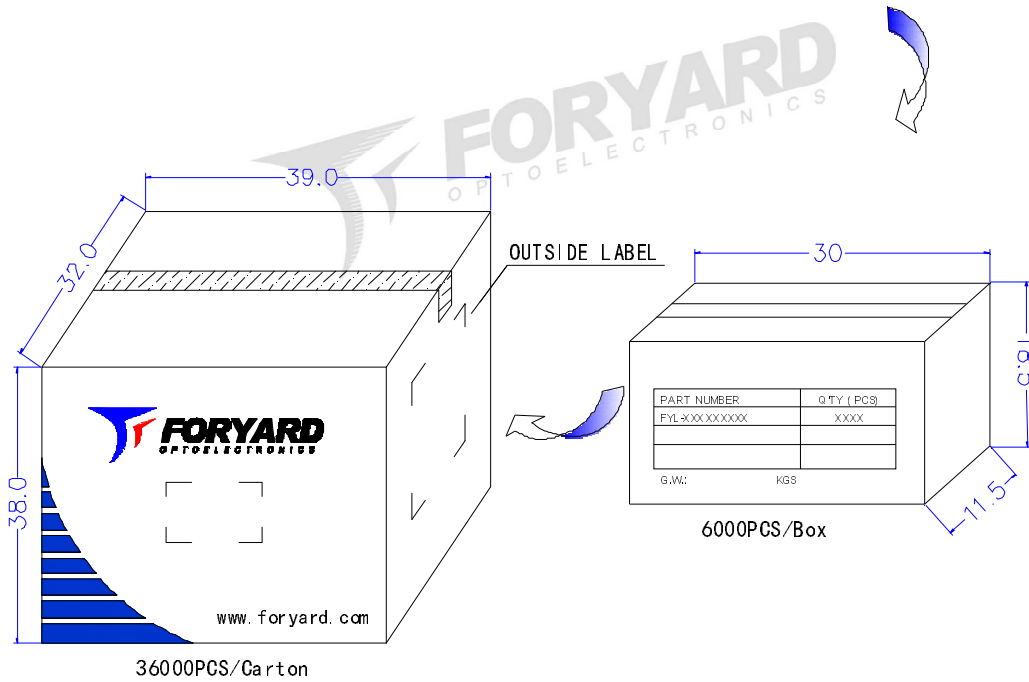
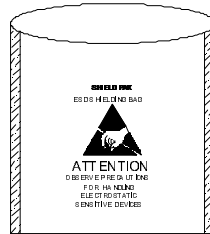
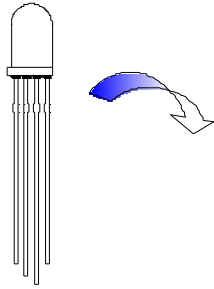


■ Radiation pattern



Model No.: FYL-5019URPGUBC1C-CA

■ LAMP PACKING.



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