

PRODUCT SPECIFICATION

Model No.: FYL-5019RGBW1C-CA

Descriptions:
■ Dice material: AlGaInP/InGaN/InGaN
■ Emitting Color: Red/Green/Blue.
■ Device Outline: 5mm Round type.
■ Lens Type: White diffused.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

NINGBO FORYARD OPTOELECTRONICS CO.,LTD

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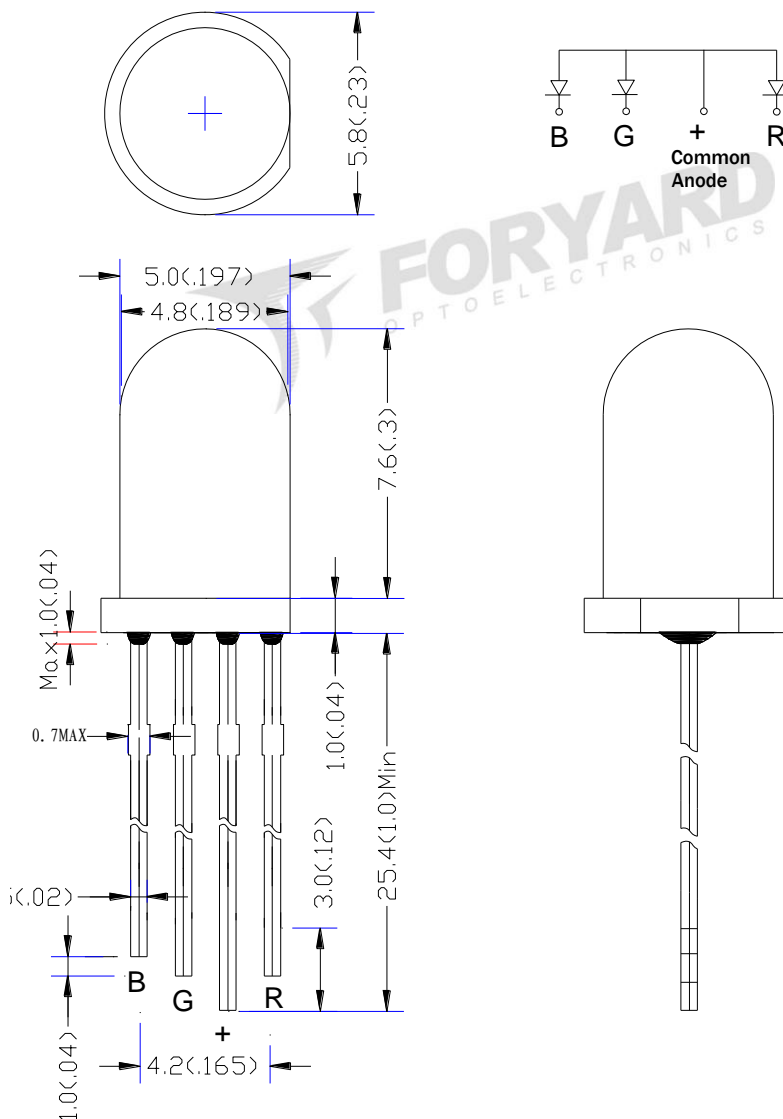
[Http://www.foryard.com](http://www.foryard.com)

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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 $\pm 0.25\text{mm}(.010\text{'})$ unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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■ Absolute Maximum Ratings(Ta=25° C)

Items	Symbol	Absolute maximum Rating			Unit
		R	G	B	
Forward Current(DC)	IF	50	30	30	mA
Peak Forward Current*	IFP	100	100	100	mA
Power Dissipation	PD	100	100	100	Mw
Operation Temperature	Topr	-40° C ~ +85° C			°C
Storage Temperature	Tstg	-40° C ~ +100° C			°C
Reverse Voltage	VR	5			V
Soldering Temperature	Tsol	Reflow Soldering:250° C/5sec			

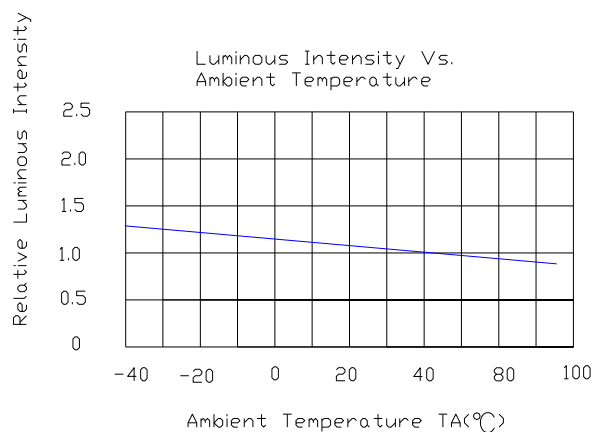
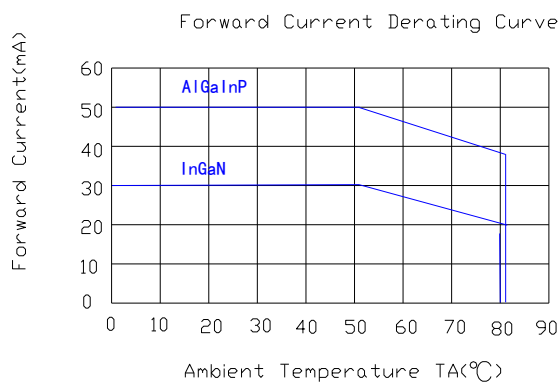
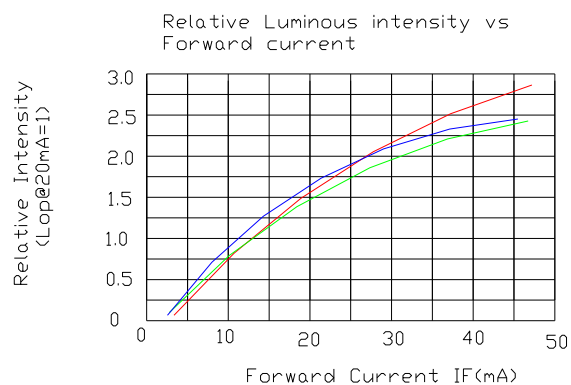
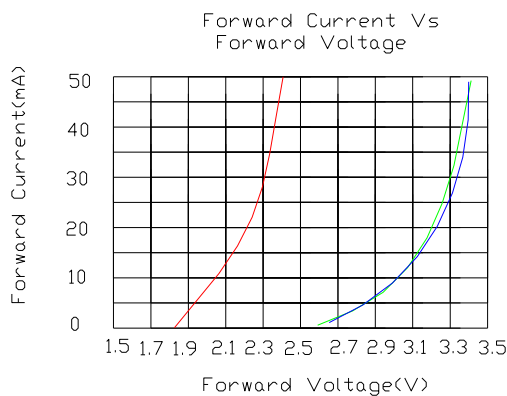
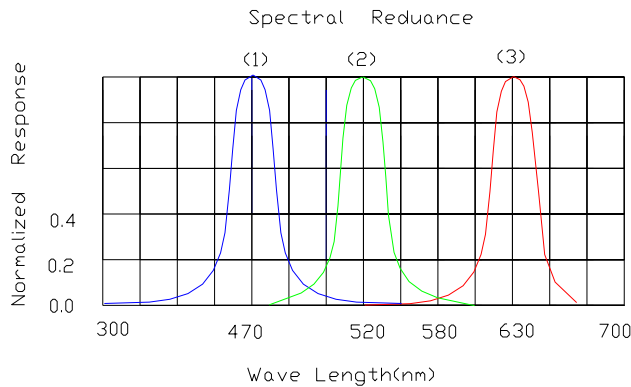
*Pulse width \leq 1msec duty \leq 1/10

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

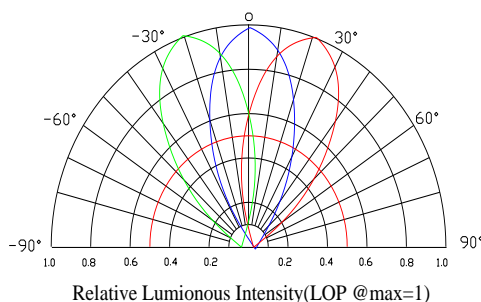
Items	Symbol	Condition	Min	Typ	Max	Unit	
Forward Voltage	VF	IF = 20mA		R	2.00	2.40	V
				G	3.20	3.60	
				B	3.20	3.60	
Reverse Current	IR	VR = 5V			5	uA	
Peak Emission Wavelength	λ_p	IF = 20mA		R	630		nm
				G	525		
				B	468		
Dominant Wavelength	λ_D	IF = 20mA		R	625		nm
				G	520		
				B	470		
Luminous Intensity	IV	IF = 20mA		R	700		mcd
				G	2500		
				B	500		
50% Power Angle	$2\theta_{1/2}$	IF = 20mA	---	60	---	Deg	

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

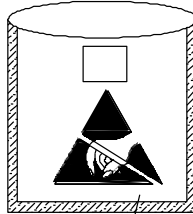
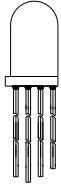


Radiation pattern.

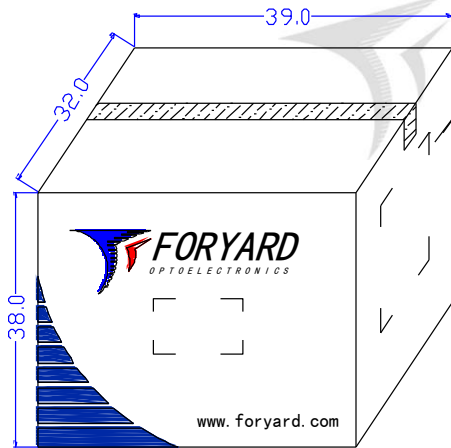


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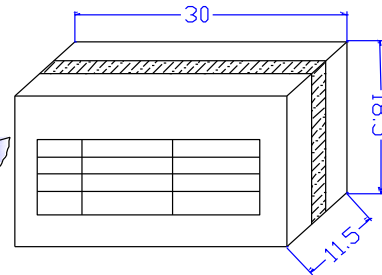
■ LAMP PACKING.



500PCS/Polybag



OUTSIDE LABEL



6000PCS/Box

36000PCS/Carton



OUTSIDE LABEL