

FYL-5019RGBW1C

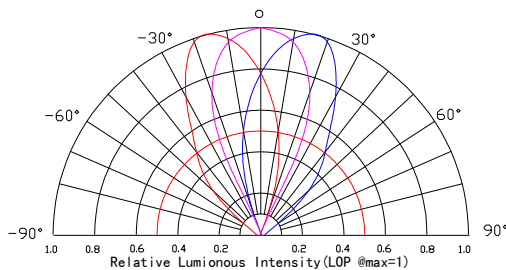
Features:

- High intensity
- General purpose leads
- RoHs compliant.

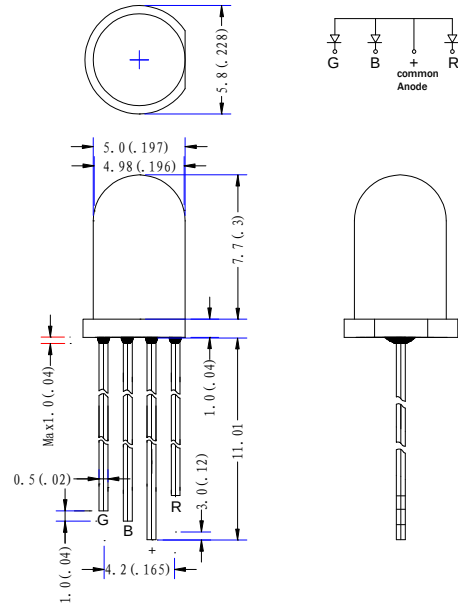
Descriptions:

- Dice material: R: AlGaInP
G: InGaN
B: InGaN
- Emitting Color: Red /Pure Green /blue
- Device Outline: $\Phi 5\text{mm}$ Round Type.
- Lens Type: White diffused

Radiation pattern.



Package configuration



- ◆ All dimensions are millimeters (inches)
- ◆ Tolerance is $\pm 0.25\text{mm}(.010")$ unless otherwise noted.

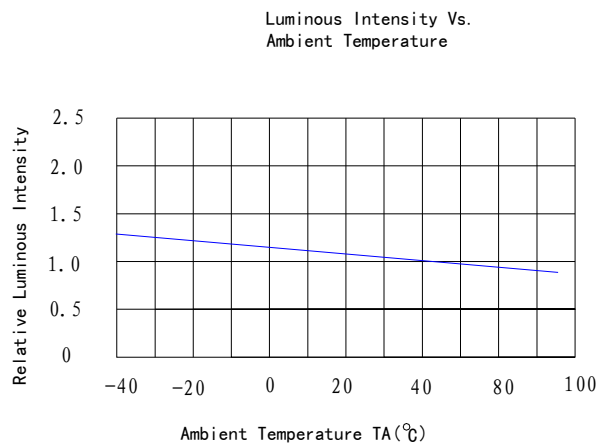
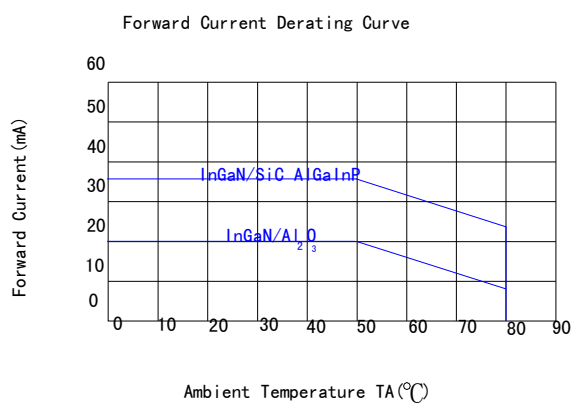
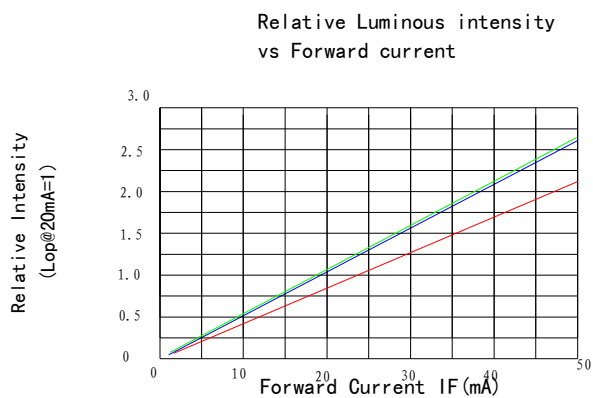
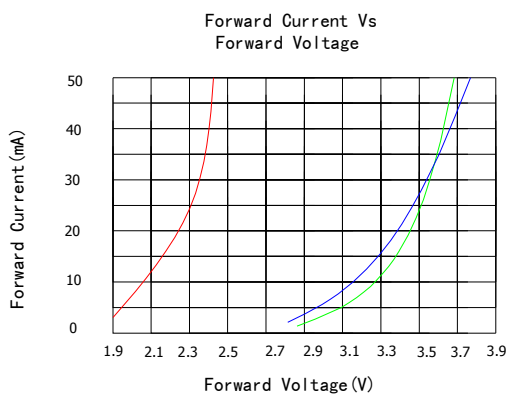
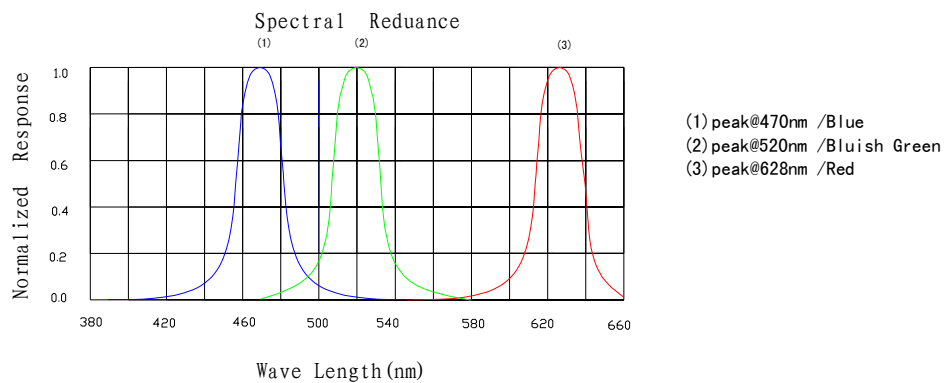
Absolute maximum ratings($T_a=25^\circ\text{C}$)

Parameter	MAX.		Unit
Power Dissipation	R	50	mW
	G	70	
	B	70	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100		mA
Continuous Forward Current	R	35	mA
	G	20	
	B	20	
Derating Linear From 50°C	0.4		$\text{mA}/^\circ\text{C}$
Reverse Voltage	5		V
Operating Temperature Range	-30°C to $+80^\circ\text{C}$		
Storage Temperature Range	-40°C to $+100^\circ\text{C}$		
Lead Soldering Temperature[4mm(.157") From Body]	260°C for 5 Seconds		

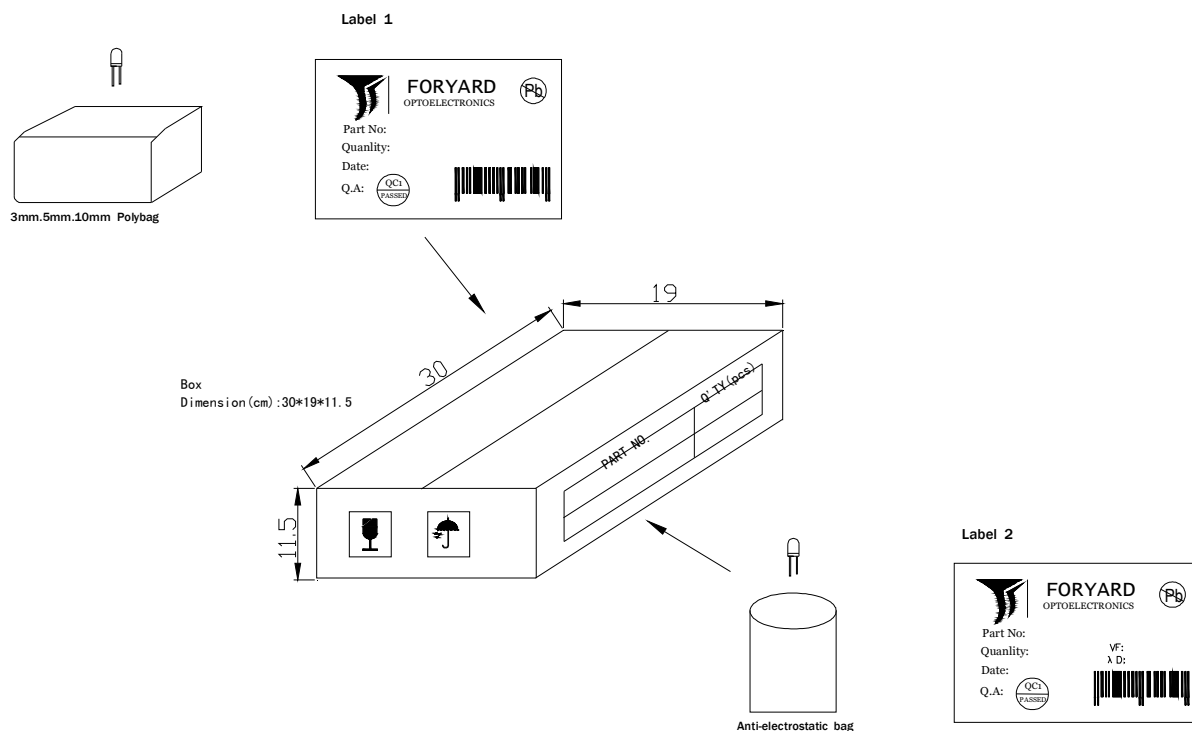
Electrical and optical characteristics(Ta=25 °c)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	R	–	340	–	I _F =20mA
		G	–	370	–	
		B	–	260	–	
Viewing Angle	2θ _{1/2}	R	45	50	55	
		G	45	50	55	
		B	45	50	55	
Peak Emission Wavelength	λ _p	R	623	628	633	
		G	515	520	525	
		B	465	470	475	
Dominant Wavelength	λ _d	R	620	625	630	
		G	518	523	528	
		B	463	468	473	
Spectral Line Half-Width	Δλ	R	15	20	25	
		G	30	35	40	
		B	25	30	35	
Forward Voltage	V _F	R	1.9	2.0	2.4	
		G	2.8	3.2	3.6	
		B	2.8	3.2	3.6	
Reverse Current	I _R			50	μA	V _R =5V

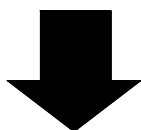
Typical Electrical Characteristics Curves (25 °c Ambient Temperature Unless Otherwise Noted)



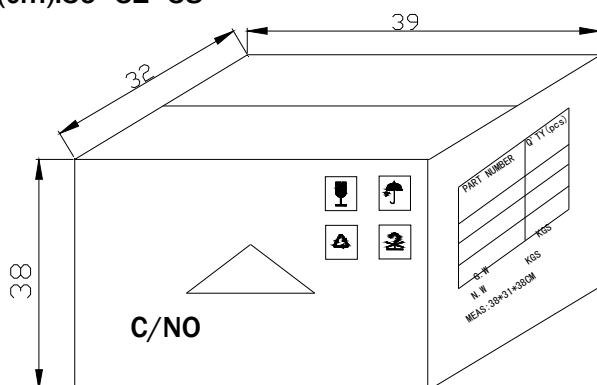
LAMP PACKING.



DEVICE	QTY/polybag(pcs)	Polybag/box A	Fig
5mm(T-1 3/4)	1000	8 bags	Label 1
3mm(T-1)	1000	10 bags	Label 1
10mm(T-1)	250	8 bags	Label 1
Blue/Green/White	500pcs	8 bags	Label 2



CARTON
Dimension(cm):39*32*38



6 Boxes/Carton
5mm:48,000pcs
3mm:60,000pcs
10mm:12,000pcs
Blue/Pure Green/bluish Green
/White:24,000pcs