

## FYL- 8013SRD1B

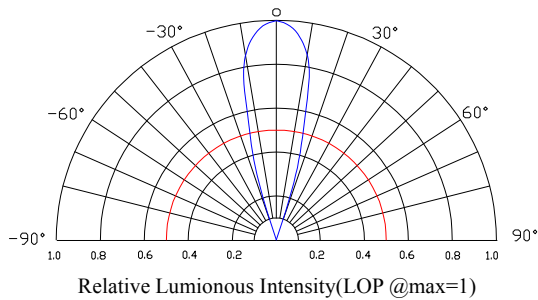
### Features:

- General purpose leads
- RoHs compliant.

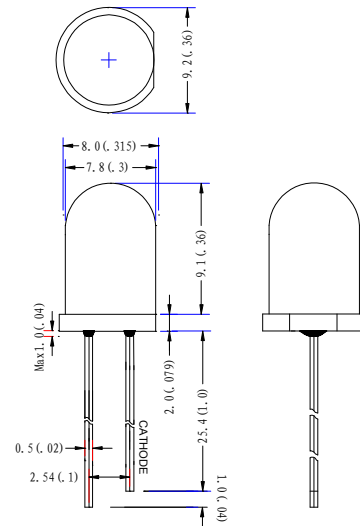
### Descriptions:

- Dice material: AlGaAs
- Emitting Color: Red
- Device Outline:  $\Phi 8$  mm Round Type.
- Lens Type: Red diffused

### Radiation pattern.



### Package configuration



- ◆ All dimensions are millimeters (inches)
- ◆ Tolerance is  $\pm 0.25\text{mm}(0.010\text{'})$  unless otherwise noted.

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

Parameter	MAX.	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse)	100	mA
Continuous Forward Current	30	mA
Derating Linear From $50^\circ\text{C}$	0.4	$\text{mA}/^\circ\text{C}$
Reverse Voltage	5	V
Operating Temperature Range	$-30^\circ\text{C}$ to $+80^\circ\text{C}$	
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	IV	-	130	-	mcd	IF=20mA
Viewing Angle	2 $\theta_{1/2}$	25	30	35	Deg	
Peak Emission Wavelength	$\lambda_p$	655	660	665	nm	
Dominate Wavelength	$\lambda_d$	635	640	645	nm	
Spectral Line Half-Width	$\Delta\lambda$	20	25	30	nm	
Forward Voltage	VF	1.7	1.9	2.5	V	

Reverse Current

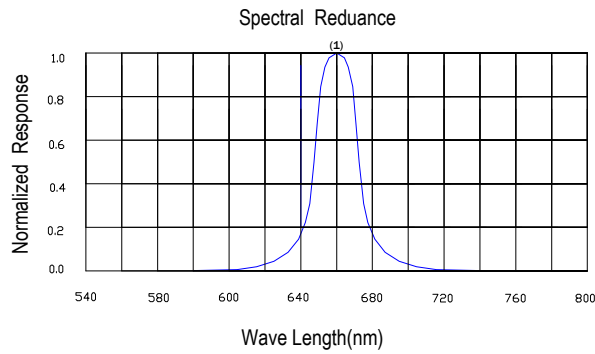
IR

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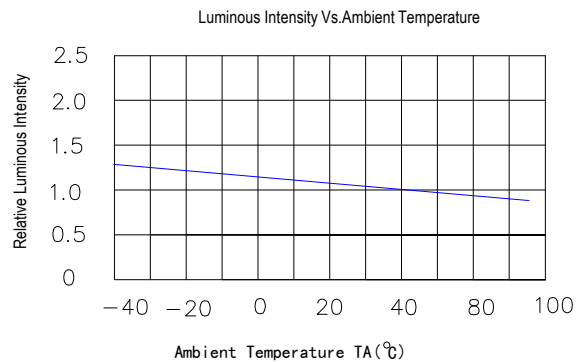
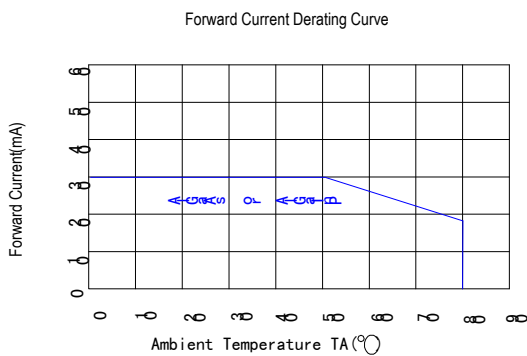
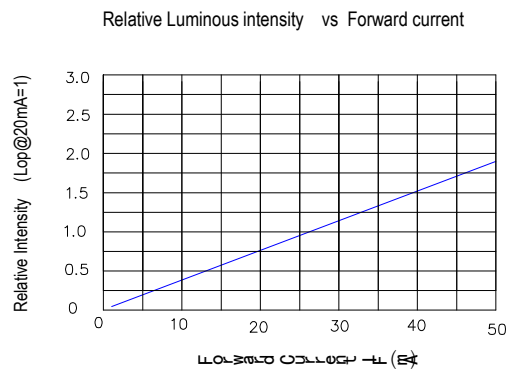
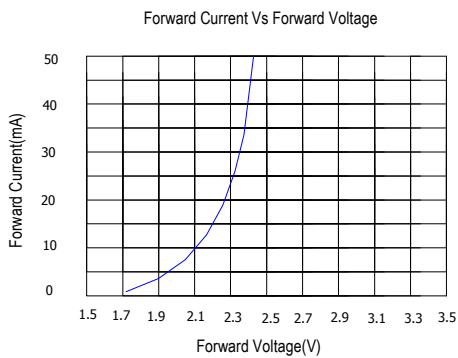
$\mu\text{A}$

VR=5V

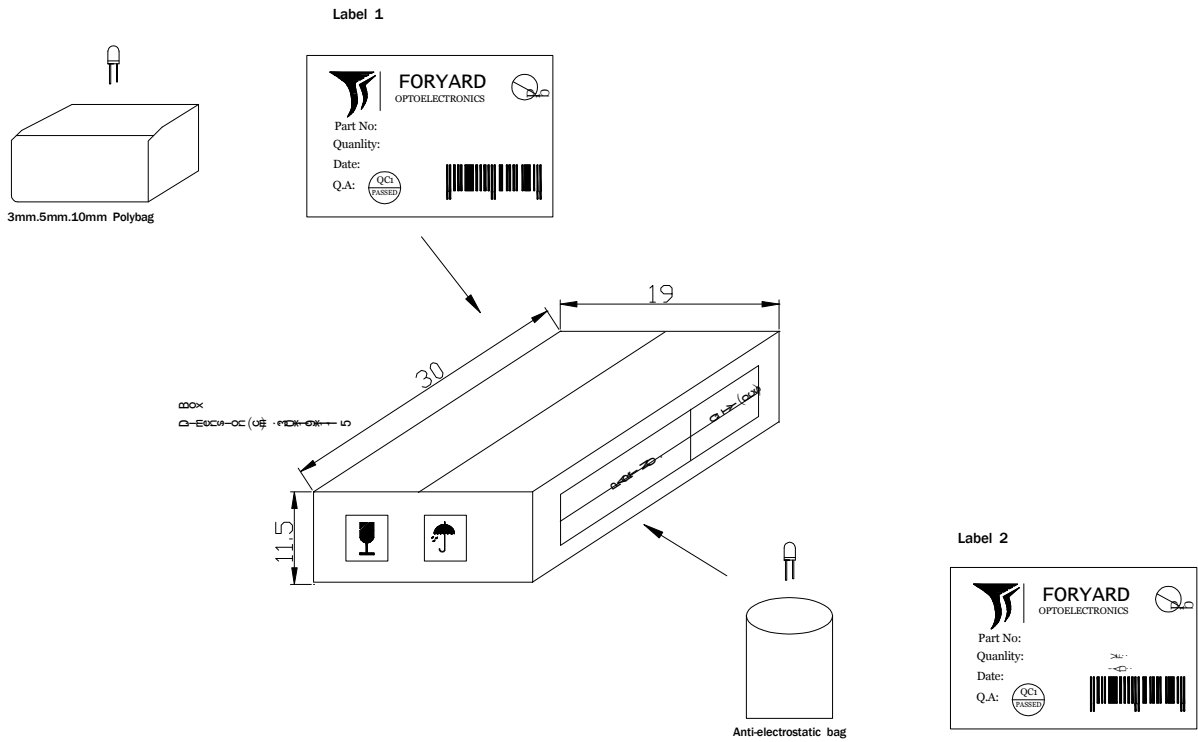
## Typical Electrical Characteristics Curves (25 °c Ambient Temperature Unless Otherwise Noted)



(1)AlGaN P peak@660/Red

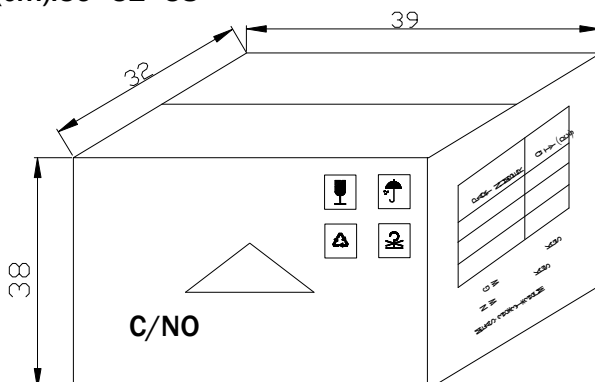


## LAMP PACKING.



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