

## FYL- 3019UEUGW1A

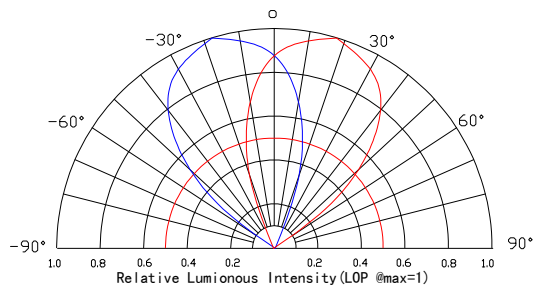
### Features:

- High intensity
- General purpose leads
- RoHs complant.

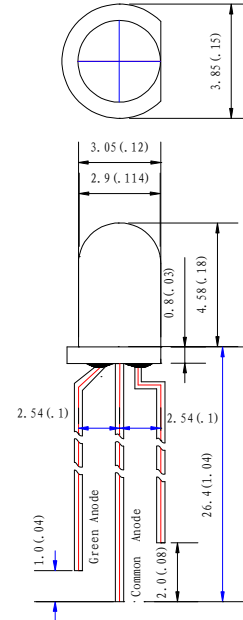
### Descriptions:

- Dice material E: GaP  
G:GaP
- Emitting Color E: Red  
G: Yellow Green
- Device Outline:  $\Phi 3\text{mm}$  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.

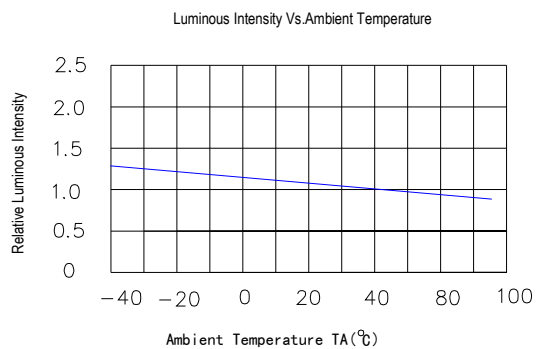
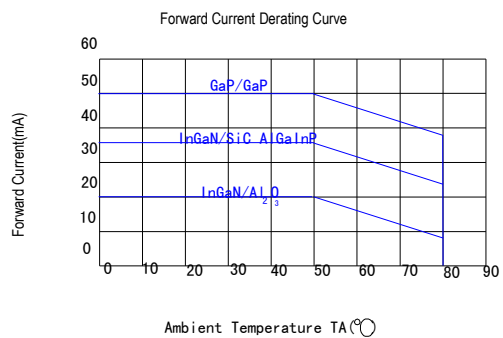
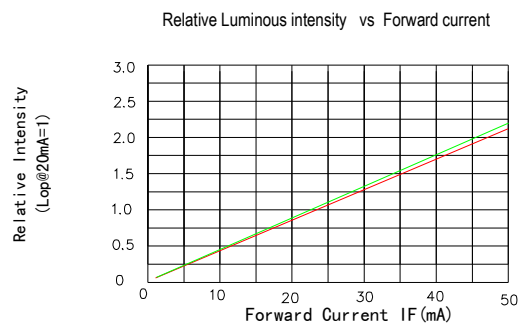
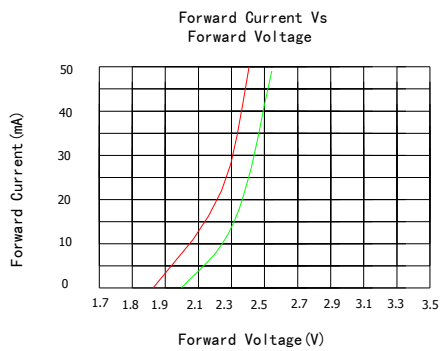
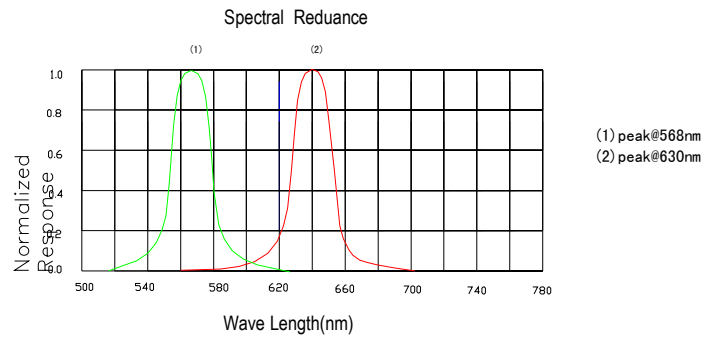
### Absolute maximum ratings( $T_a=25^\circ\text{C}$ )

| Parameter                                                 | MAX.                                        |    | Unit                 |
|-----------------------------------------------------------|---------------------------------------------|----|----------------------|
| Power Dissipation                                         | E                                           | 50 | mW                   |
|                                                           | G                                           | 50 |                      |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 100                                         |    | mA                   |
| Continuous Forward Current                                | 20                                          |    | mA                   |
| Derating Linear From $50^\circ\text{C}$                   | 0.4                                         |    | 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          |    |                      |

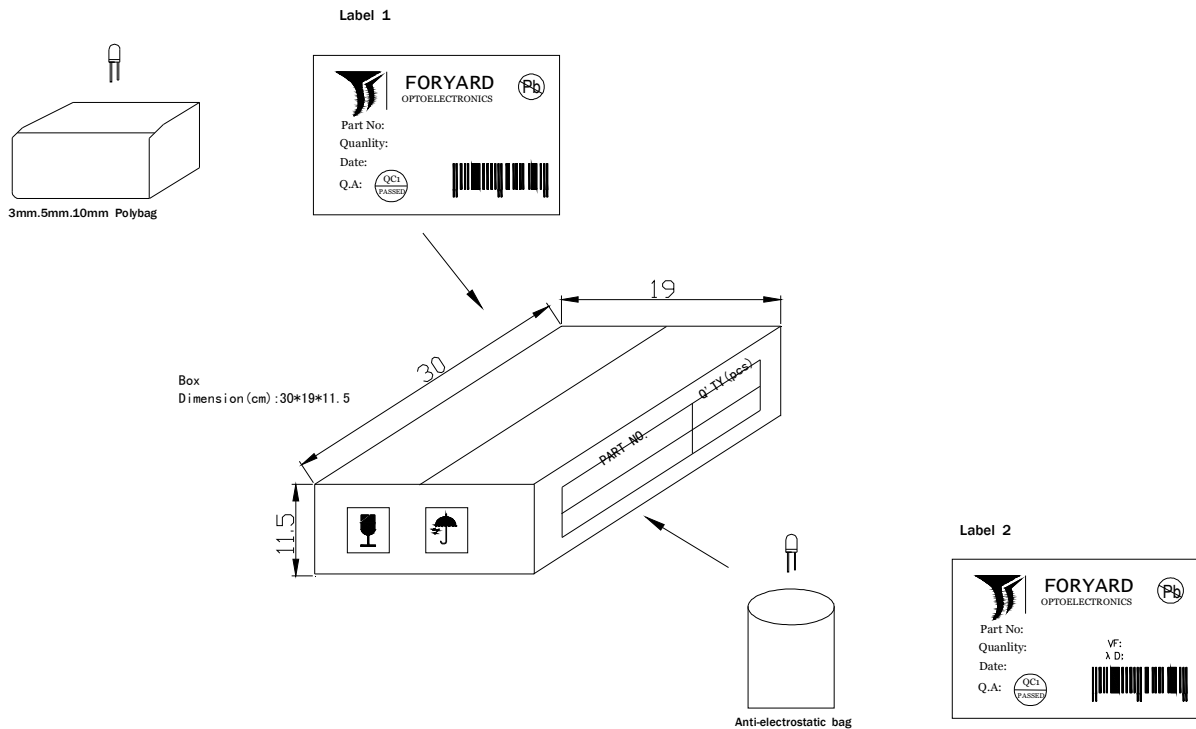
## Electrical and optical characteristics(Ta=25 °c)

| Parameter                | Symbol            |   | Min. | Typ. | Max. | Unit | Test Condition       |
|--------------------------|-------------------|---|------|------|------|------|----------------------|
| Luminous Intensity       | I <sub>v</sub>    | E | —    | 350  | —    | mcd  | I <sub>F</sub> =20mA |
|                          |                   | G | —    | 200  | —    |      |                      |
| Viewing Angle            | 2θ <sub>1/2</sub> | E | 60   | 65   | 70   | Deg  |                      |
|                          |                   | G | 60   | 65   | 70   |      |                      |
| Peak Emission Wavelength | λ <sub>p</sub>    | E | 625  | 630  | 635  | nm   |                      |
|                          |                   | G | 563  | 568  | 573  |      |                      |
| Dominant Wavelength      | λ <sub>d</sub>    | E | 620  | 625  | 630  | nm   |                      |
|                          |                   | G | 567  | 572  | 577  |      |                      |
| Spectral Line Half-Width | Δλ                | E | 10   | 15   | 20   | nm   |                      |
|                          |                   | G | 15   | 20   | 25   |      |                      |
| Forward Voltage          | V <sub>F</sub>    | E | 1.6  | 2.0  | 2.4  | V    |                      |
|                          |                   | G | 1.8  | 2.3  | 2.8  |      |                      |
| Reverse Current          | I <sub>R</sub>    |   |      | —    | 50   | μA   | V <sub>R</sub> =5V   |

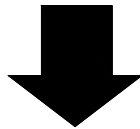
## Typical Electrical Characteristics Curves (25 °c Ambient Temperature Unless Otherwise Noted)



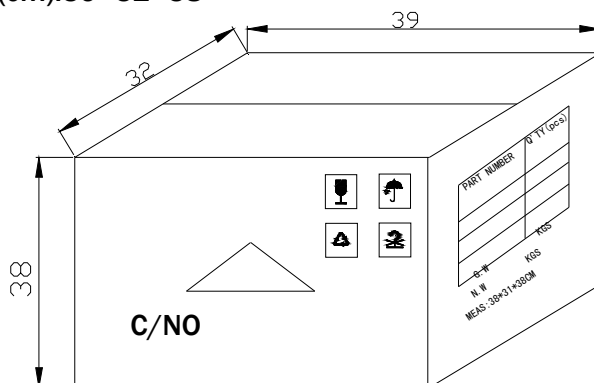
## LAMP PACKING.



| 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