

## FYL- 10024UWC1B

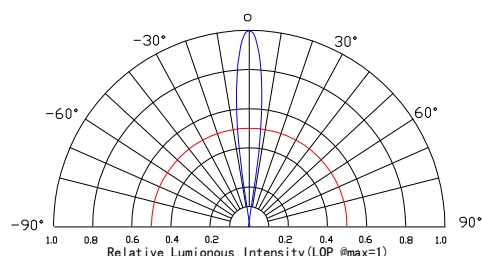
### Features:

- High intensity
- General purpose leads
- RoHs complant.

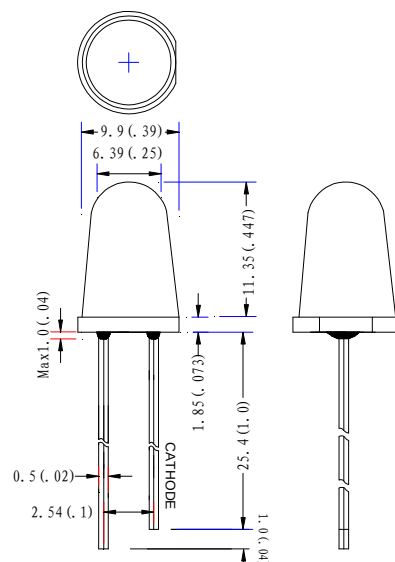
### Descriptions:

- Dice material: InGaN
- Emitting Color: White
- Device Outline:  $\Phi 10\text{mm}$  Bullet head Type.
- Lens Type: Water clear.

### Radiation pattern.



### Package configuration



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

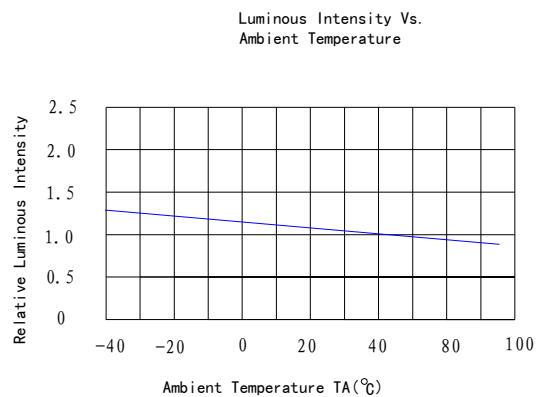
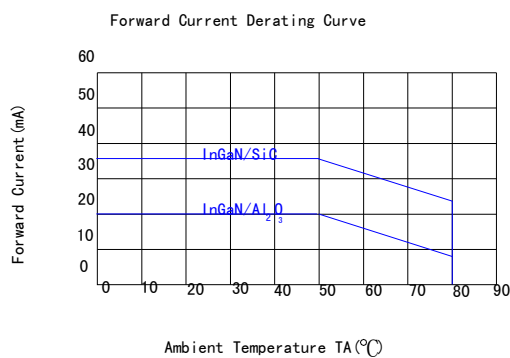
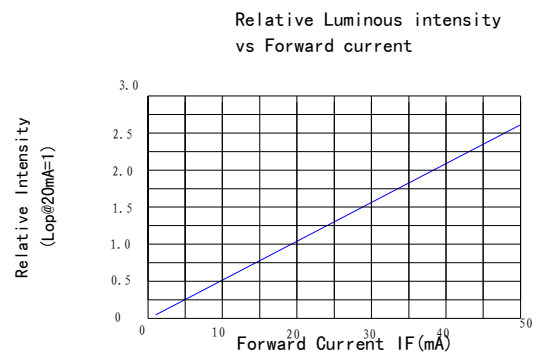
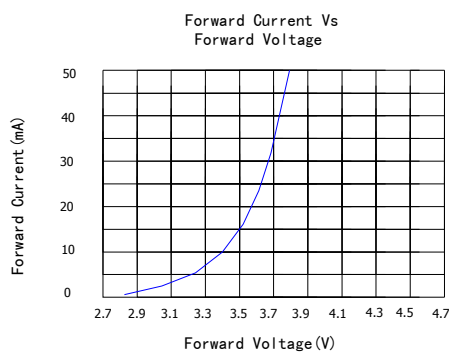
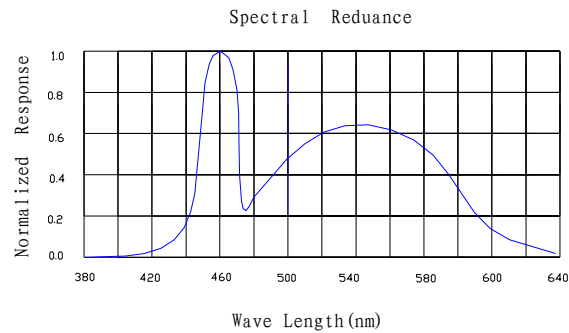
### Absolute maximum ratings( $T_a=25^\circ\text{C}$ )

| Parameter                                                 | MAX.                                        | Unit                 |
|-----------------------------------------------------------|---------------------------------------------|----------------------|
| Power Dissipation                                         | 70                                          | mW                   |
| 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                    |
| Electrostatic Discharge (ESD)                             | 150                                         | V                    |
| Operating Temperature Range                               | $-20^\circ\text{C}$ to $+80^\circ\text{C}$  |                      |
| Storage Temperature Range                                 | $-30^\circ\text{C}$ to $+100^\circ\text{C}$ |                      |
| Lead Soldering Temperature[4mm(.157") From Body]          | 260 $^\circ\text{C}$ for 5 Seconds          |                      |

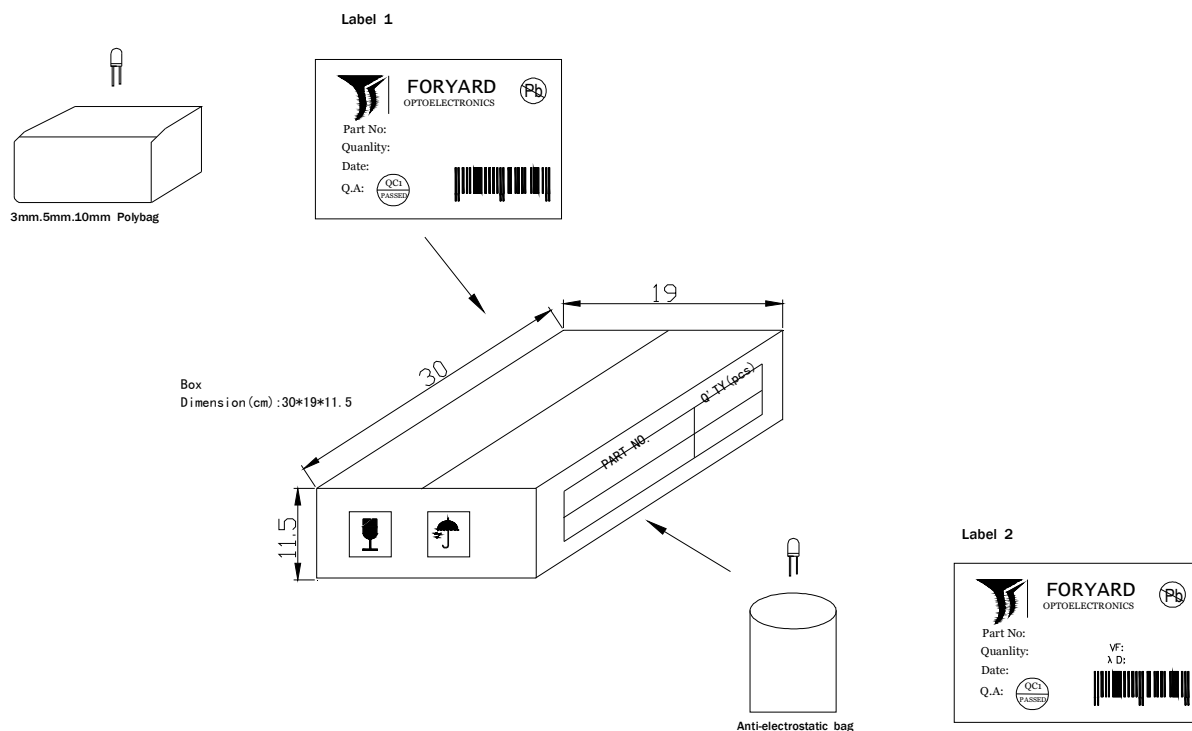
### Electrical and optical characteristics( $T_a=25^\circ\text{C}$ )

| Parameter                | Symbol          | Min. | Typ.  | Max. | Unit          | Test Condition    |
|--------------------------|-----------------|------|-------|------|---------------|-------------------|
| Luminous Intensity       | $I_v$           | —    | 30000 | —    | mcd           | $I_F=20\text{mA}$ |
| Viewing Angle            | $2\theta_{1/2}$ | 10   | 15    | 20   | Deg           |                   |
| Chromaticity coordinates | x               |      | 0.29  |      |               |                   |
|                          | y               |      | 0.30  |      |               |                   |
| CCT                      | 9500            |      |       |      | K             |                   |
| Forward Voltage          | $V_F$           | 2.8  | 3.2   | 3.6  | V             | $V_R=5\text{V}$   |
| Reverse Current          | $I_R$           |      |       | 50   | $\mu\text{A}$ |                   |

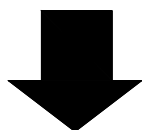
## Typical Electrical Characteristics Curves (25 °c Ambient Temperature Unless Otherwise Noted)



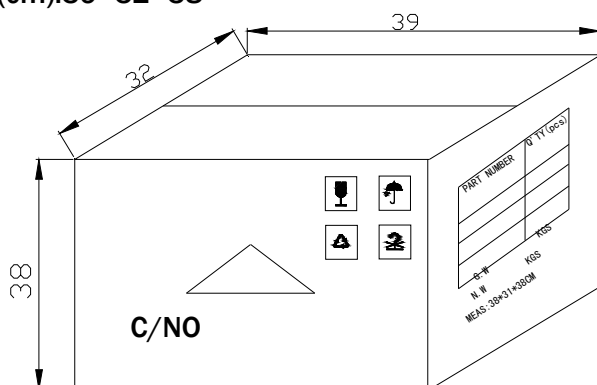
## LAMP PACKING.



| 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