

# PRODUCT SPECIFICATION

**Model No.: FYL-5019SURUBW1B-CC**

## Descriptions:

- Dice material: AlGaInP;InGaN.
- Emitting Color: Super Bright Red;Super Bright Blue.
- Device Outline:  $\Phi$ 5mm round type.
- Lens Type: White Diffused.



| CUSTOMER APPROVED SIGNATURES | APPROVED BY | SALES BY                                                                             | PREPARED BY                                                                           |
|------------------------------|-------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                              |             |  |  |

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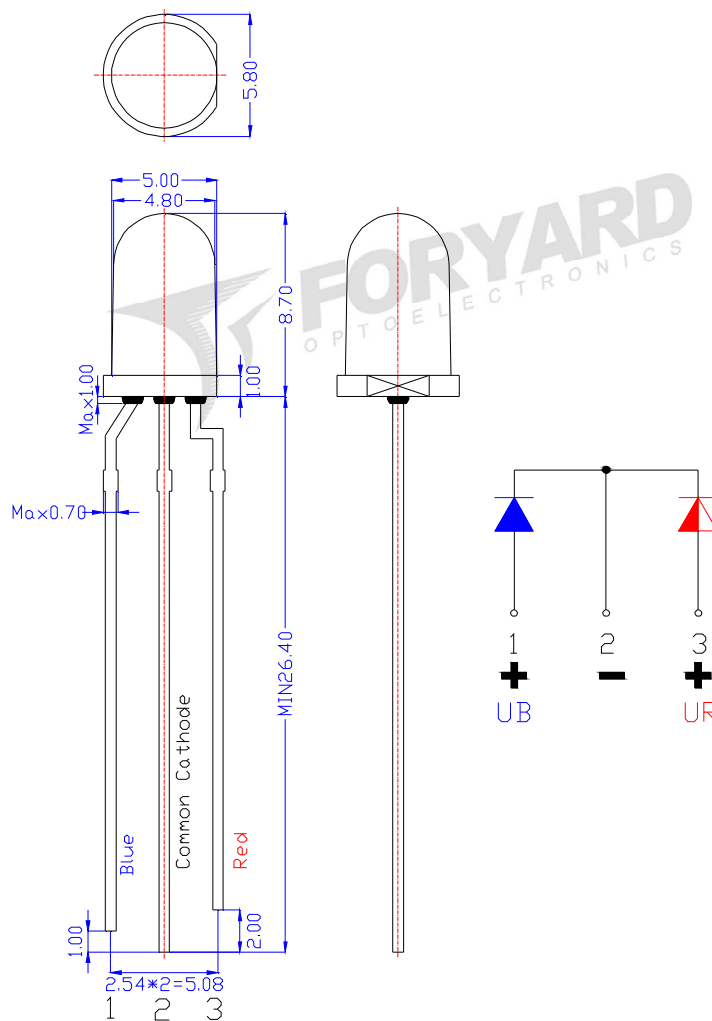
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## ■ Features

- 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") unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
4. The drawing is different from the actual one, please refer to the sample.

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### ■ Absolute Maximun Ratings(Ta=25°C)

| Parameter                                                 | MAX.                |     | Unit  |
|-----------------------------------------------------------|---------------------|-----|-------|
|                                                           | UR                  | UB  |       |
| Power Dissipation                                         | 75                  | 75  | mW    |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 100                 | 100 | mA    |
| Continuous Forward Current                                | 30                  | 30  | mA    |
| Derating Linear From 50°C                                 | 0.4                 |     | mA/°C |
| Reverse Voltage                                           | 5                   |     | V     |
| Operating Temperature Range                               | -40°C to +85°C      |     |       |
| Storage Temperature Range                                 | -40°C to +100°C     |     |       |
| Lead Soldering Temperature[4mm(.157") From Body]          | 260°C for 5 Seconds |     |       |

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

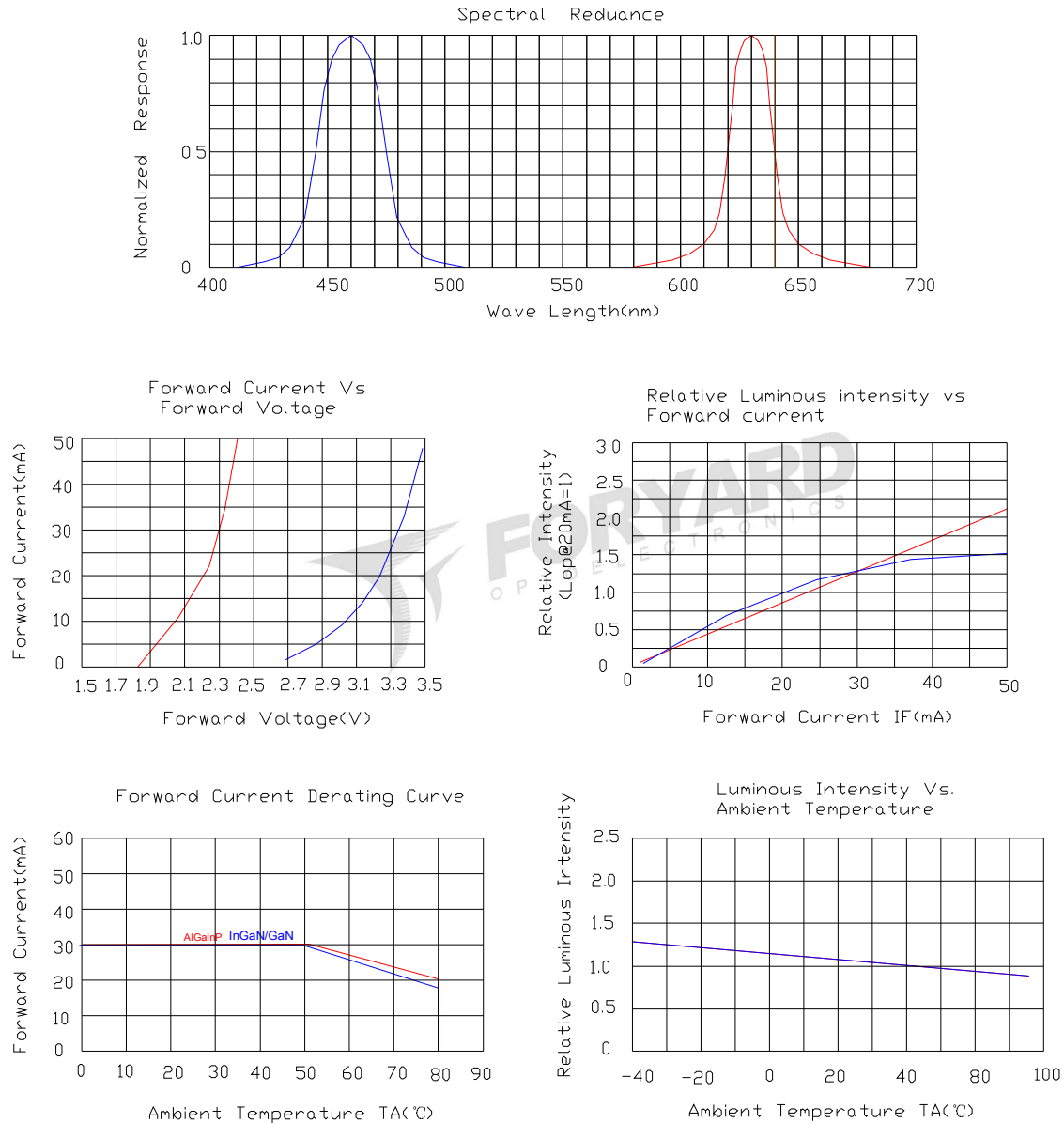
| Parameter                | Symbol             | Colour | Min. | Typ. | Max. | Unit    | Test Condition |
|--------------------------|--------------------|--------|------|------|------|---------|----------------|
| Luminous Intensity       | $I_V$              | UR     | ---  | 1200 | ---  | mcd     | IF=20mA        |
|                          |                    | UB     | ---  | 900  | --   |         |                |
| Viewing Angle            | $2\theta_{1/2}$    | UR     | ---  | 25   | ---  | Deg     |                |
|                          |                    | UB     | ---  | 30   | --   |         |                |
| Peak Emission Wavelength | $\lambda_p$        | UR     | ---  | 630  | --   | nm      |                |
|                          |                    | UB     | ---  | 470  | --   |         |                |
| Dominant Wavelength      | $\lambda_d$        | UR     | 618  | 625  | 630  | nm      |                |
|                          |                    | UB     | 463  | 470  | 475  |         |                |
| Spectral Line Half-Width | $\triangle\lambda$ | UR     | ---  | 20   | --   | nm      |                |
|                          |                    | UB     | ---  | 30   | --   |         |                |
| Forward Voltage          | $V_F$              | UR     | 1.8  | 2.1  | 2.4  | V       |                |
|                          |                    | UB     | 2.6  | 3    | 3.4  |         |                |
| Reverse Current          | $I_R$              |        | ---  | ---  | 10   | $\mu A$ | VR=5V          |

Note:

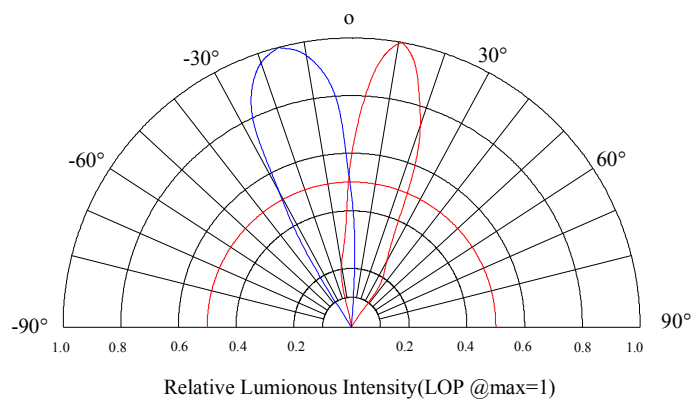
- 1.Luminous Intensity is based on the Foryard standards.
- 2.Pay attention about static for InGaN

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

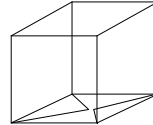
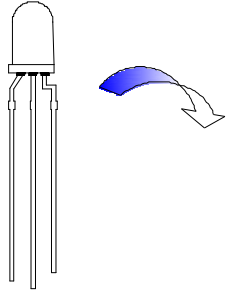


■ Radiation pattern

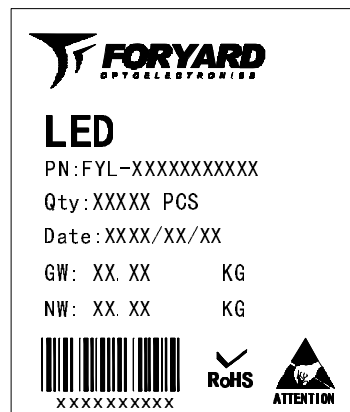
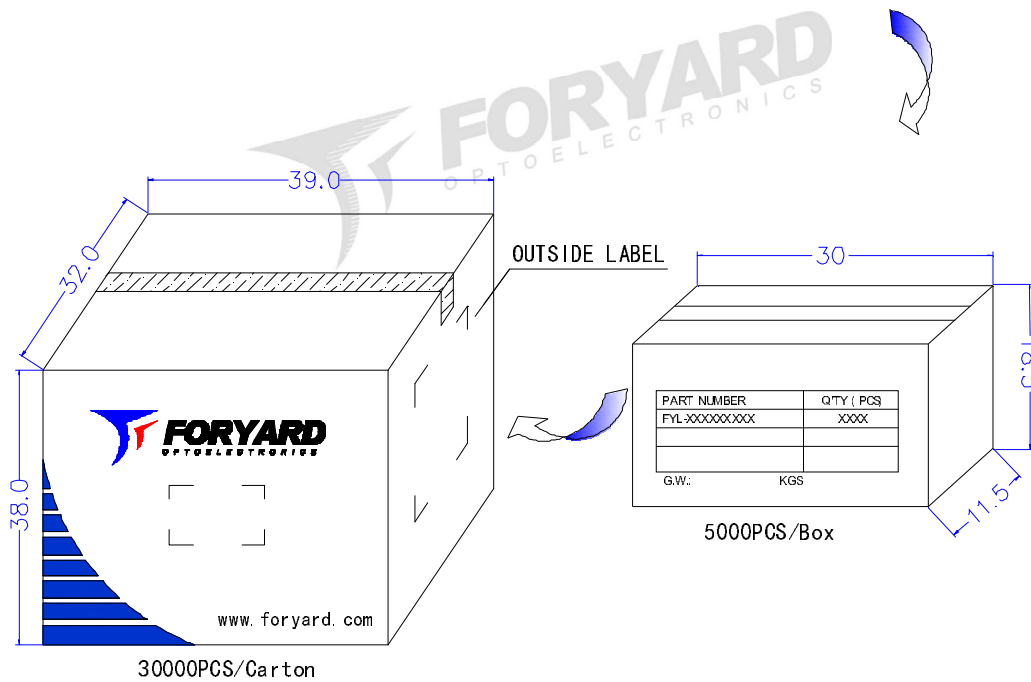


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■ LAMP PACKING.



5mm 500PCS/Polybag



OUTSIDE LABEL

Note: The specifications are subject to change without notice. Please contact us for updated information.