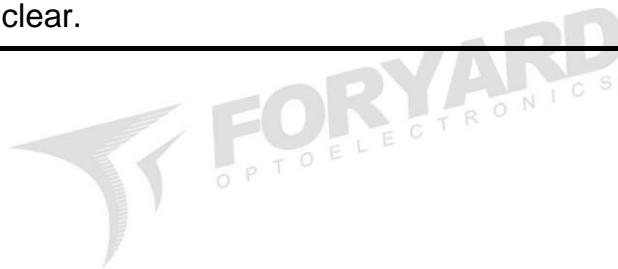


# PRODUCT SPECIFICATION

**Model No.: FYL-3044LUYC1P**

| Descriptions:   |
|---|
| <ul style="list-style-type: none"> <li>■ Dice material: AlGaInP.</li> <li>■ Emitting Color: Super Bright Yellow.</li> <li>■ Device Outline: Φ3mm cylinder type.</li> <li>■ Lens Type: Water clear.</li> </ul> |



| CUSTOMER APPROVED SIGNATURES | APPROVED BY | CHECKED BY | PREPARED BY |
|------------------------------|-------------|------------|-------------|
|                              |             |            |             |

**NINGBO FORYARD OPTOELECTRONICS CO.,LTD.**

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**Fax:** 0086-574-87927917

**E-mail:**Sales@foryard.com (General)



Model No.: FYL-3044LUYC1P

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

| Parameter   | MAX.                | Unit  |
|---|---------------------|-------|
| Power Dissipation   | 75                  | mW    |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 100                 | mA    |
| Continuous Forward Current                                | 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 Characteristics(Ta=25°C)

| Parameter                | Symbol          | Min. | Typ. | Max. | Unit    | Test Condition |
|--------------------------|-----------------|------|------|------|---------|----------------|
| Luminous Intensity       | $I_V$           | 500  | 1000 | 1800 | mcd     | IF=20mA        |
| Viewing Angle            | $2\theta_{1/2}$ | ---  | 90   | ---  | Deg     |                |
| Peak Emission Wavelength | $\lambda_p$     | ---  | 590  | --   | nm      |                |
| Dominant Wavelength      | $\lambda_d$     | 586  | 590  | 594  | nm      |                |
| Spectral Line Half-Width | $\Delta\lambda$ | ---  | 20   | --   | nm      |                |
| Forward Voltage          | $V_F$           | 1.8  | 2.1  | 2.4  | V       |                |
| 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

#### ■ Luminous Intensity Guide (Unit: mcd) @IF=20mA

| Code                    | N14     | N15      | N16       | N17       |
|-------------------------|---------|----------|-----------|-----------|
| Luminous Intensity(mcd) | 500~700 | 700~1000 | 1000~1380 | 1380~1800 |

Tolerance of measurement of luminous intensity is  $\pm 15\%$

#### ■ Dominate Wavelength Guide (Unit: nm) @IF=20mA

| Code                    | Y3      | Y4      | Y5      | Y6      |
|-------------------------|---------|---------|---------|---------|
| Dominate Wavelength(nm) | 586~588 | 588~590 | 590~592 | 592~594 |

Tolerance for each Dominate Wavelength bin is  $\pm 1\text{nm}$

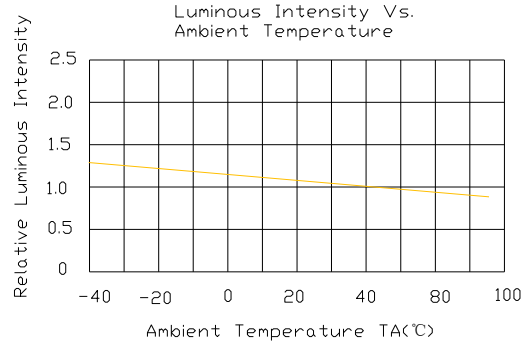
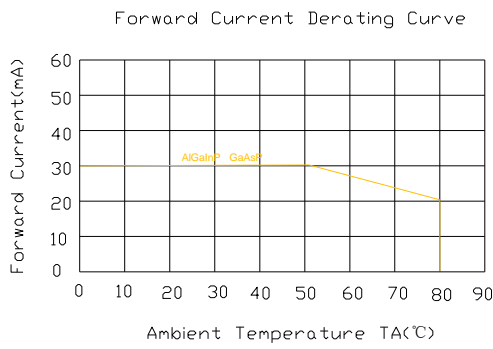
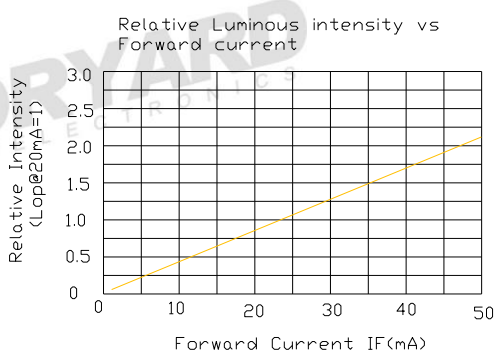
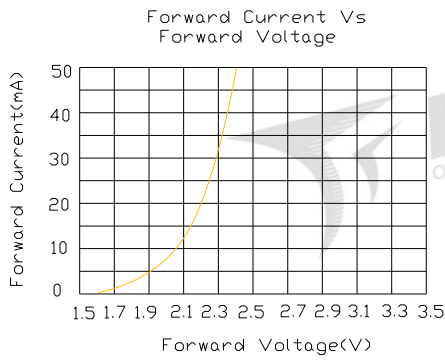
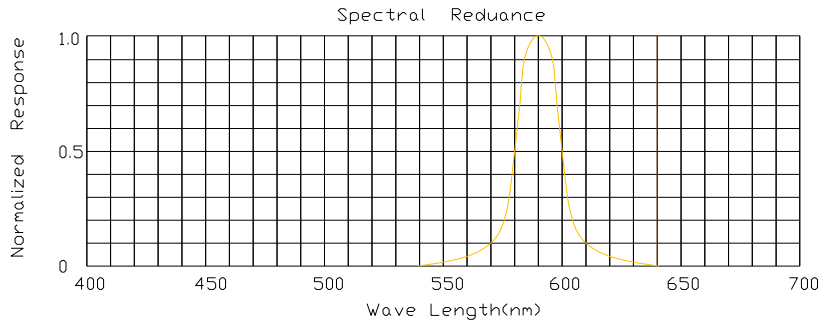
#### ■ Forward Voltage Guide (Unit: V) @IF=20mA

| Code               | V2      | V3a     | V3b     | V4      |
|--------------------|---------|---------|---------|---------|
| Forward Voltage(V) | 1.8~2.0 | 2.0~2.1 | 2.1~2.2 | 2.2~2.4 |

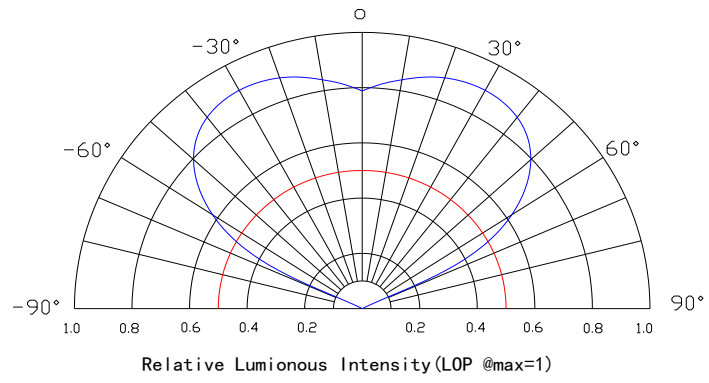
Tolerance of measurement of forward voltage is  $\pm 0.1\text{V}$

**Model No.: FYL-3044LUYC1P**

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



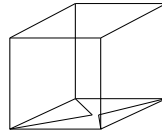
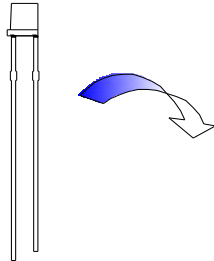
**Radiation pattern**



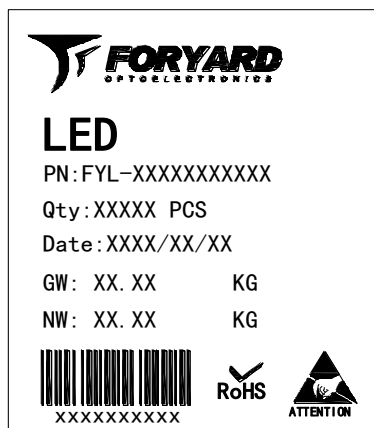
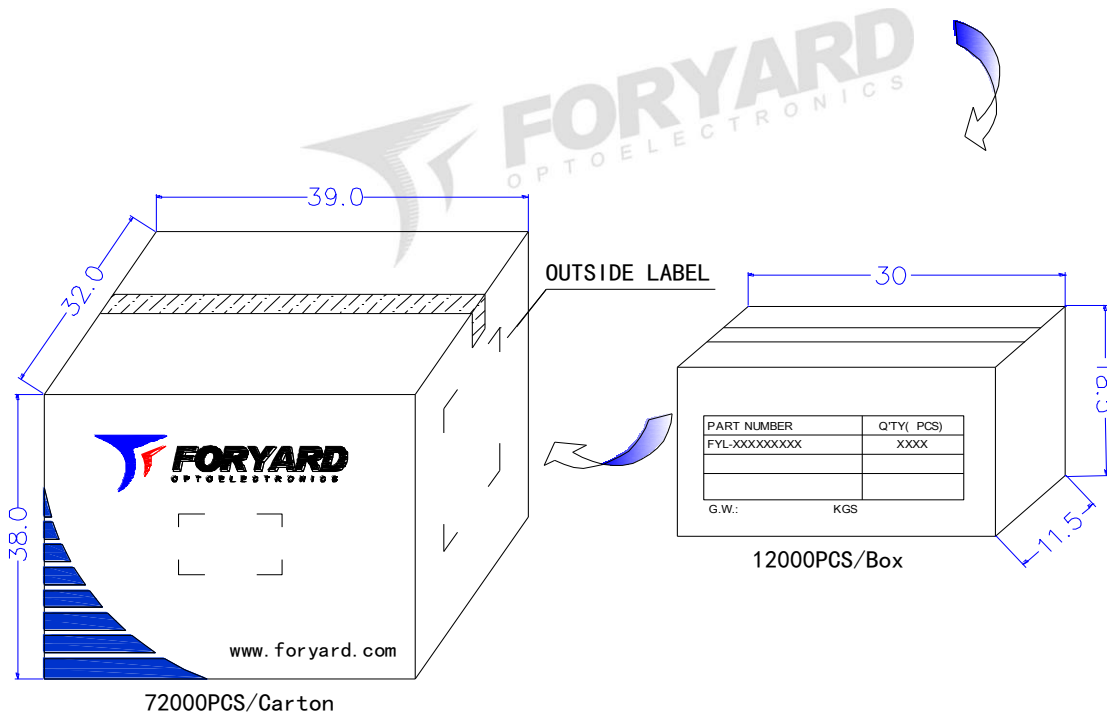
|             |                |
|-------------|----------------|
| Model No.   | FYL-3044LUYC1P |
| Date / Rev. | 2020.05.04 / A |

Model No.: FYL-3044LUYC1P

■ LAMP PACKING.



3mm 1000PCS/Polybag



OUTSIDE LABEL

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