

## PRODUCT SPECIFICATION

**Model No.: FYL-5013PURD1C**

| Descriptions:                      |
|------------------------------------|
| ■Dice material: AlGaInP.           |
| ■Emitting Color: Super bright Red. |
| ■Device Outline: Φ5mm round type.  |
| ■Lens Type: Red diffused.          |



| CUSTOMER APPROVED<br>SIGNATURES | APPROVED BY | CHECKED BY | PREPARED BY |
|---------------------------------|-------------|------------|-------------|
|                                 |             |            |             |

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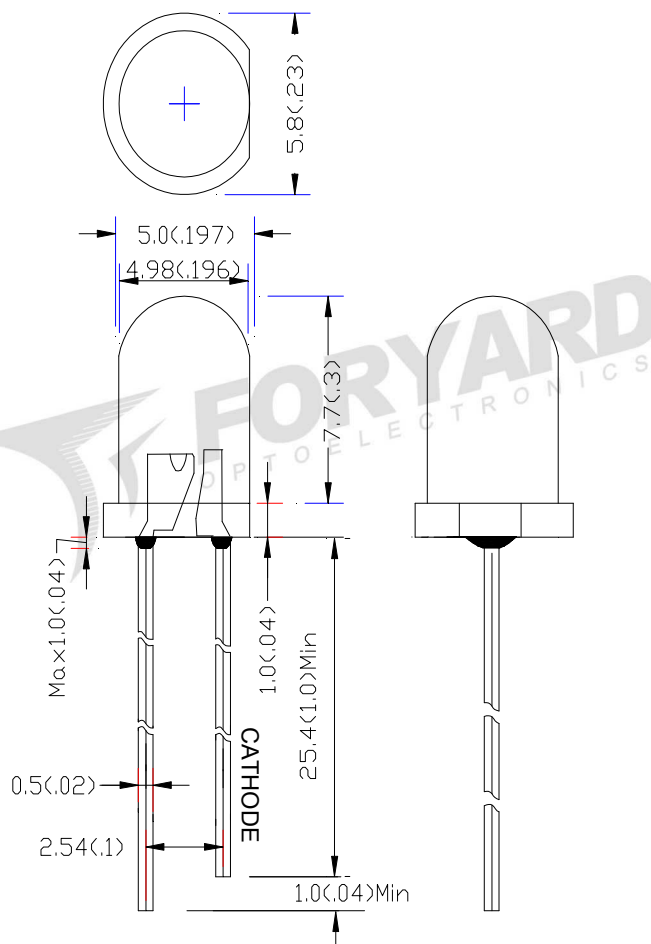
**E-mail:** Sales@foryard.com (General)

[Http://www.foryard.com](http://www.foryard.com)

## ■ 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.

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

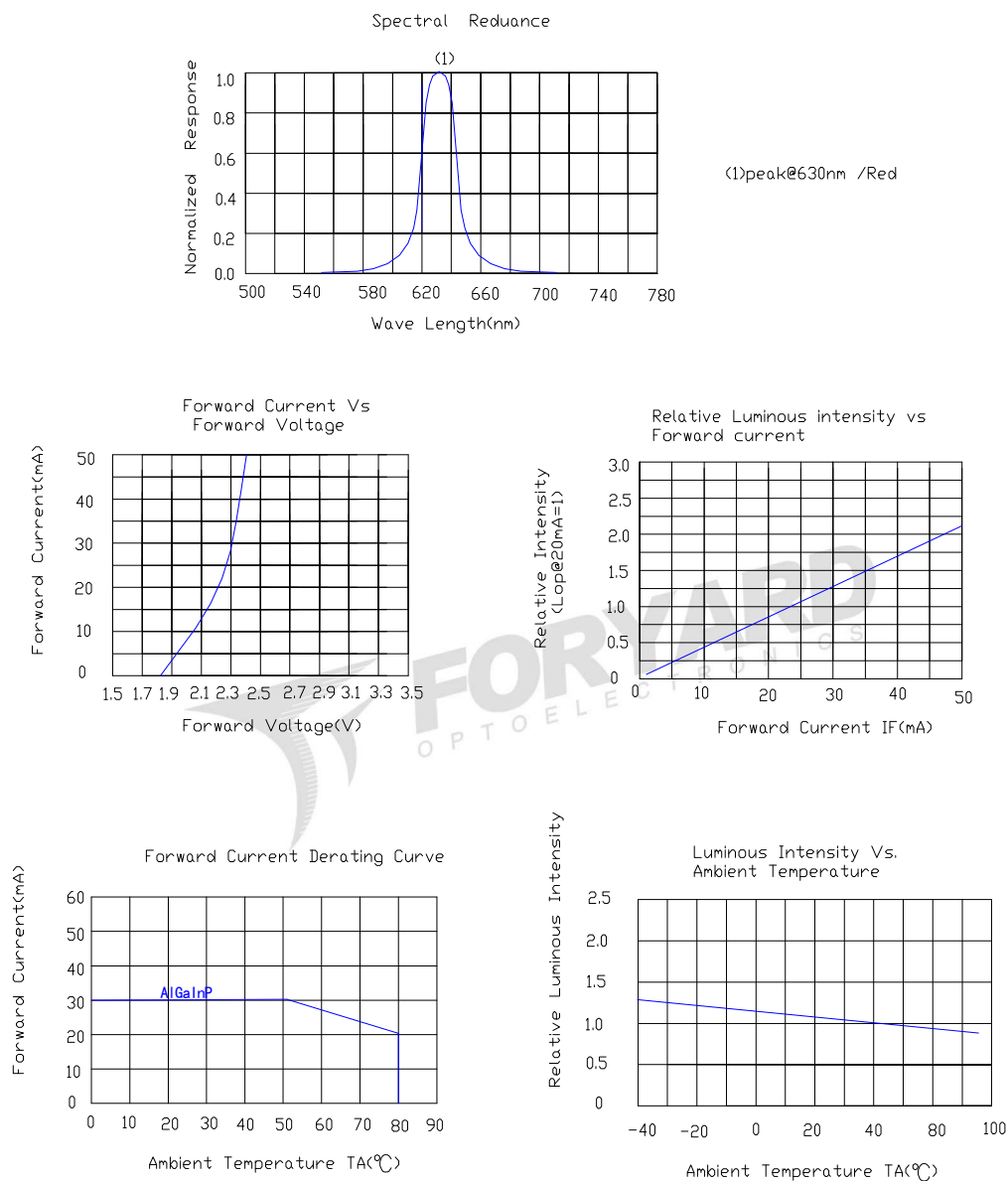
| Parameter                                                 | MAX.                                                            | Unit                   |
|-----------------------------------------------------------|-----------------------------------------------------------------|------------------------|
| 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 $50\text{ }^{\circ}\text{C}$         | 0.4                                                             | mA/ $^{\circ}\text{C}$ |
| Reverse Voltage                                           | 5                                                               | V                      |
| Operating Temperature Range                               | $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$  |                        |
| Storage Temperature Range                                 | $-40\text{ }^{\circ}\text{C}$ to $+100\text{ }^{\circ}\text{C}$ |                        |
| Lead Soldering Temperature[4mm(.157") From Body]          | $260\text{ }^{\circ}\text{C}$ for 5 Seconds                     |                        |

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

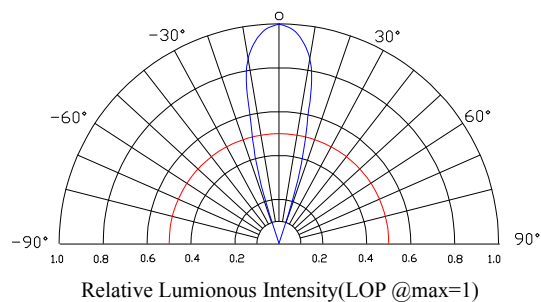
| Parameter                | Symbol          | Min. | Typ. | Max. | Unit          | Test Condition    |
|--------------------------|-----------------|------|------|------|---------------|-------------------|
| Luminous Intensity       | $I_v$           | —    | 2200 | —    | mcd           | $I_F=20\text{mA}$ |
| Viewing Angle            | $2\theta_{1/2}$ | —    | 30   | —    | Deg           |                   |
| Peak Emission Wavelength | $\lambda_p$     | —    | 630  | —    | nm            |                   |
| Dominant Wavelength      | $\lambda_d$     | 620  | 625  | 630  | nm            |                   |
| Spectral Line Half-Width | $\Delta\lambda$ | —    | 15   | —    | nm            |                   |
| Forward Voltage          | $V_F$           | 1.7  | 2.0  | 2.5  | V             | $V_R=5\text{V}$   |
| Reverse Current          | $I_R$           |      |      | 10   | $\mu\text{A}$ |                   |

## ■ Typical Electrical Characteristics Curves

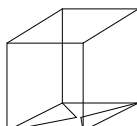
(25 °c Ambient Temperature Unless Otherwise Noted)



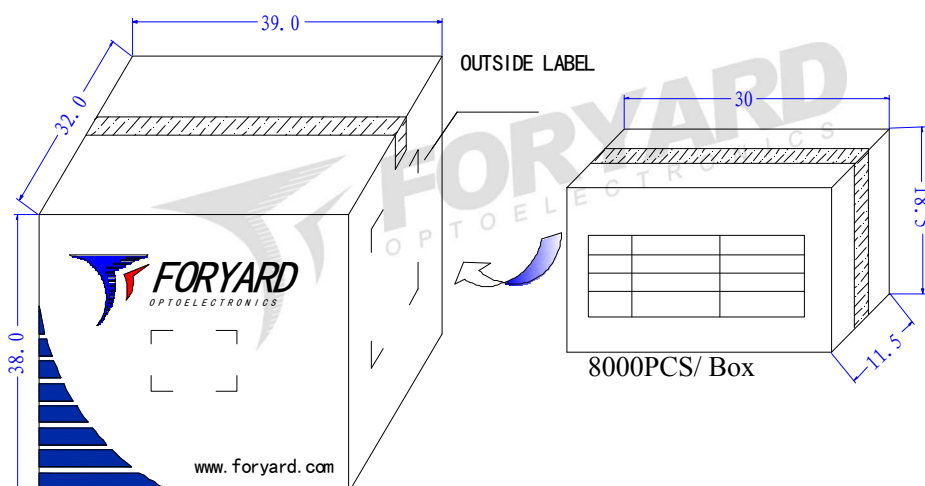
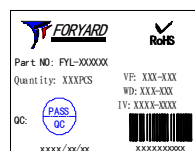
## Radiation pattern.



## ■ LAMP PACKING.



5mm 1000PCS/Polybag



48000PCS/ Carton



OUTSIDE LABEL