



PRODUCT SPECIFICATION

Model No.: FYL-5013IRAC1C

| Descriptions: |
|--|
| <ul style="list-style-type: none"> ■ Dice material: AlGaAs. ■ Emitting Color: Infrared. ■ Device Outline: Φ5mm round type. ■ Lens Type: Water clear. |



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

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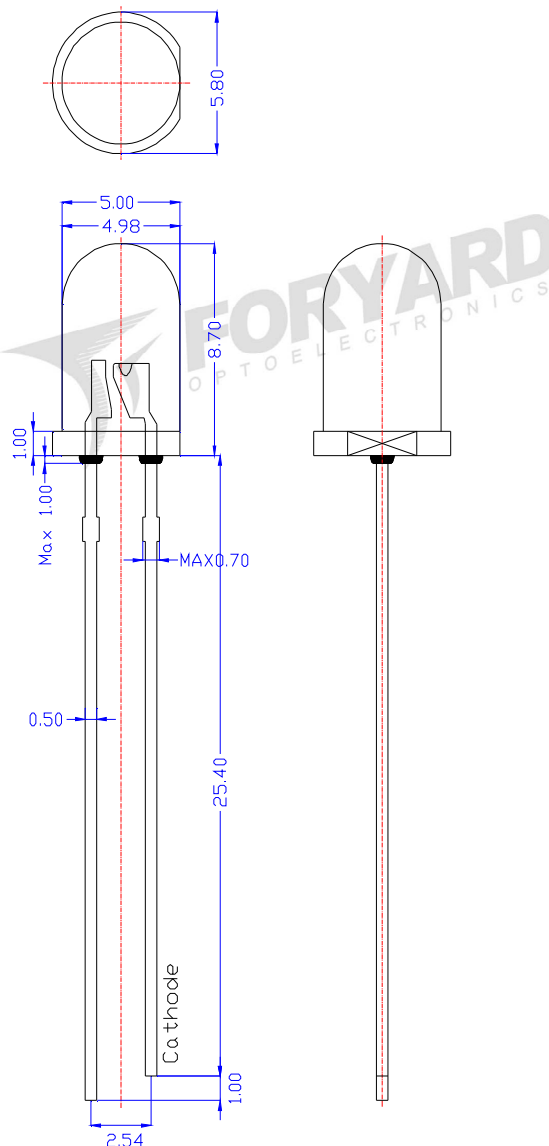
[Http://www.foryard.com](http://www.foryard.com)

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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 $\pm 0.25\text{mm}(.010\text{'})$ unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior

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

| Parameter | Symbol | Test Condition | MAX. | Unit |
|--|--------|---------------------|------|------|
| Power Dissipation | pd | — | 100 | mW |
| Forward Current | IFM | Duty=0.01ms 1khz | 1000 | mA |
| Reverse Voltage | VR | IR=10UA | 9 | V |
| Operating Temperature Range | | -30°C to +80°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)**

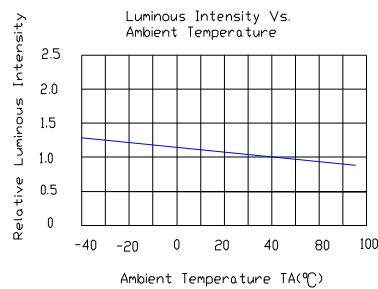
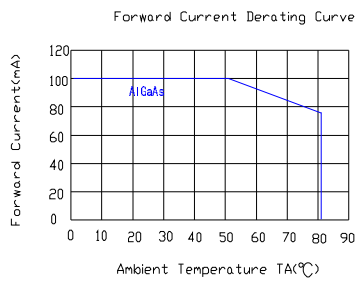
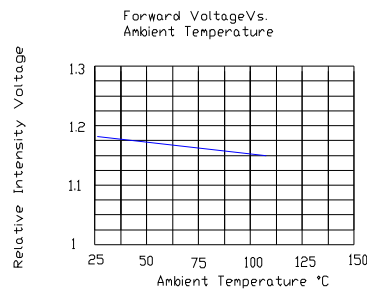
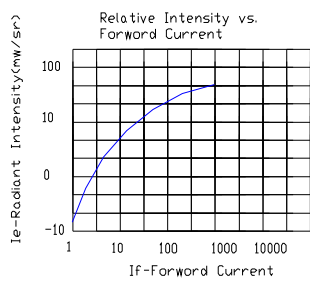
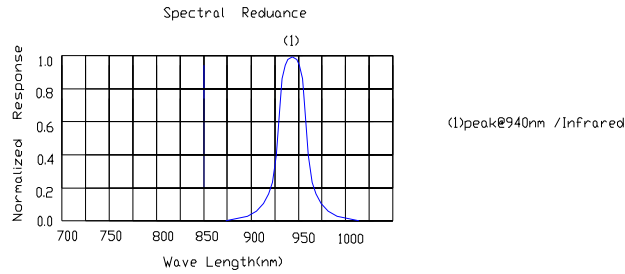
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|-------------------|------|------|------|-------|----------------|
| Radiant Intensity | Ee | 40 | 60 | — | mW/sr | IF=20mA |
| Viewing Angle | 2θ _{1/2} | — | 20 | — | Deg | |
| Peak Emission Wavelength | λp | — | 940 | — | nm | |
| Spectral Line Half-Width | Δλ | 40 | 45 | 50 | nm | |
| Forward Voltage | V _F | — | 1.3 | 1.5 | V | VR=5V |
| Reverse Current | I _R | — | — | 10 | μA | |

Note:

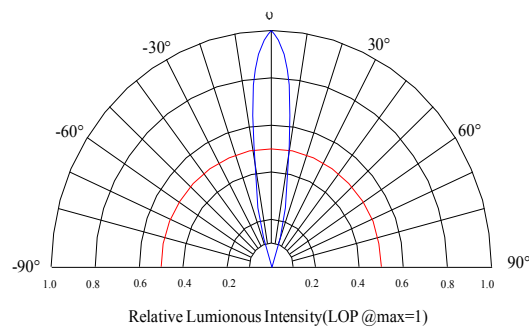
- 1.Luminous Intensity is based on the Foryard standards.
- 2.Pay attention about static for InGaN

Model No.: FYL-5013IRAC1C

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

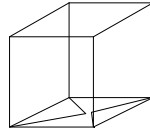
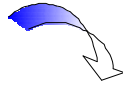
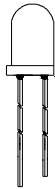


Radiation pattern.

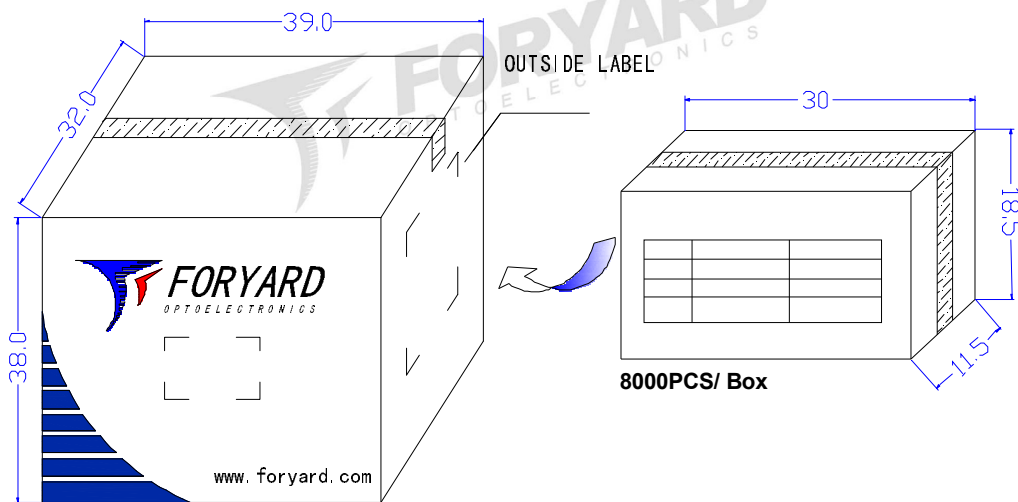
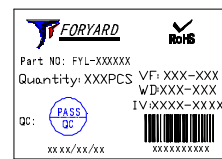


Model No.: FYL-5013IRAC1C

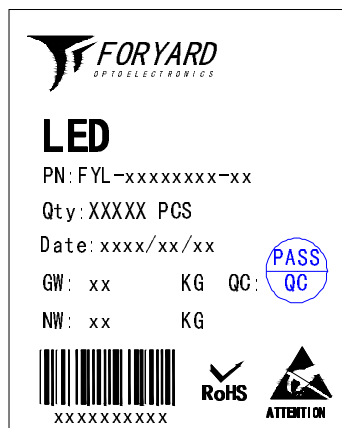
■ LAMP PACKING.



5mm 1000PCS/Polybag



48000PCS/ Carton



OUTSIDE LABEL

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