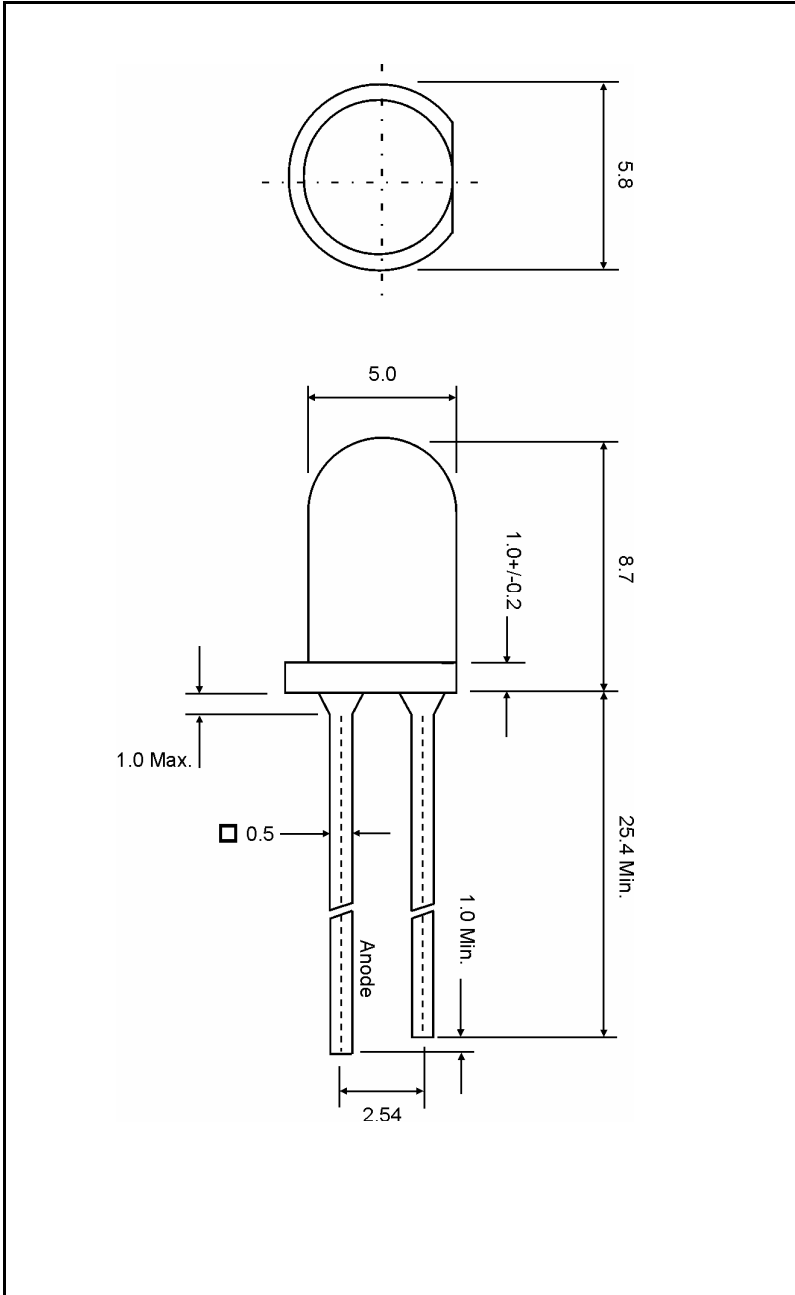


**Package Dimensions**



**Characters**

- Standard 5mm Round
- Reliable and Rugged
- Low Power Consumption
- Low Working Current

**Functions**

- Power Indicator
- Back-Lighting
- Lighting Guide

**Notes**

1. All Dimensions are in millimeters
2. Tolerance is +/- 0.25mm unless otherwise noted
3. Protruded resin under flange is 1.0mm max.
4. Lead measured where the leads emerge from the package
5. ESD Class ( Mil-Std-883d Method 3015.7 ) based on

Human Body Mode : 500V ( Ave. )

| Chip Material | Emitting Color | Lens Color  |
|---------------|----------------|-------------|
| AIGaInP       | Ultra Yellow   | Water Clear |



**Electro-Optical Characteristics ( Ta=25°C )**

| Parameter                    | Symbol            | Min. | Typ. | Max. | Unit | Test Condition        |
|------------------------------|-------------------|------|------|------|------|-----------------------|
| Luminous Intensity           | I <sub>v</sub>    | 700  |      | 2000 | mcd  | I <sub>F</sub> = 20mA |
| Viewing Angle *              | 2θ <sup>1/2</sup> |      | 20   |      | Deg. |                       |
| Dominant Wavelength          | λ <sub>d</sub>    | 590  |      | 595  | nm   |                       |
| Spectrum Radiation Bandwidth | Δλ                |      | 21   |      | nm   |                       |
| Forward Voltage              | V <sub>F</sub>    | 1.8  | 2.0  | 2.4  | V    |                       |
| Recommended Working Current  | R <sub>IF</sub>   | 10   | 20   | 25   | mA   |                       |

\* Viewing Angle is defined as the off-axis angle where the Luminous Intensity is 1/2 the peak intensity.

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

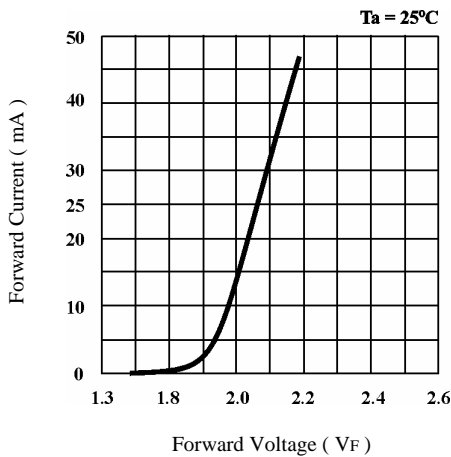
| Parameter                     | Symbol           | Max.                | Unit |
|-------------------------------|------------------|---------------------|------|
| Power Dissipation             | P <sub>D</sub>   | 100                 | mW   |
| DC Forward Current            | I <sub>F</sub>   | 30                  | mA   |
| Peak Forward Current #        | I <sub>PF</sub>  | 120                 | mA   |
| Reverse Voltage               | V <sub>R</sub>   | 5                   | V    |
| Reverse Current               | I <sub>R</sub>   | 10                  | uA   |
| Operation Temperature Range   | T <sub>opr</sub> | + 80 ~ - 30         | Deg. |
| Storage Temperature Range     | T <sub>stg</sub> | + 100 ~ - 40        | Deg. |
| Soldering Temperature Range * | T <sub>sol</sub> | 260°C for 5 Seconds | Deg. |

# Duty Ratio = 1/16 , Pulse width = 0.1ms

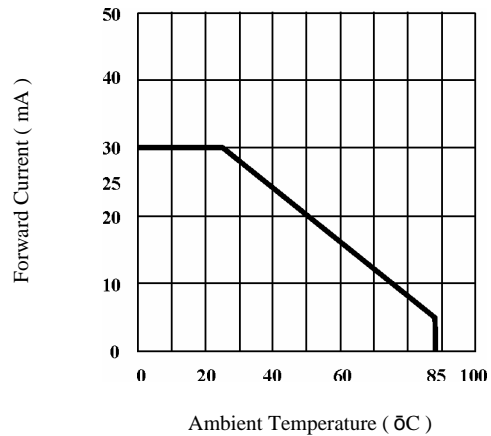
\* Lead Soldering Temperature Range ( 1.6mm from LED Body )

**Typical Electro-Optical Characteristics Curves**

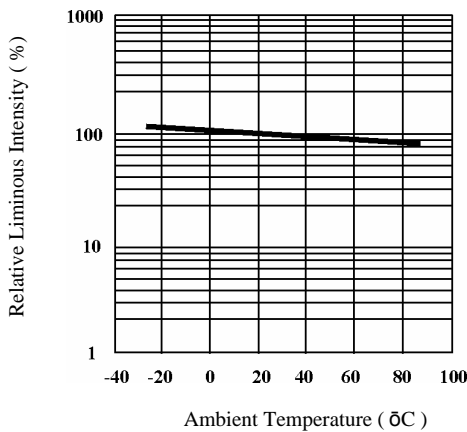
Forward Current VS Forward Voltage



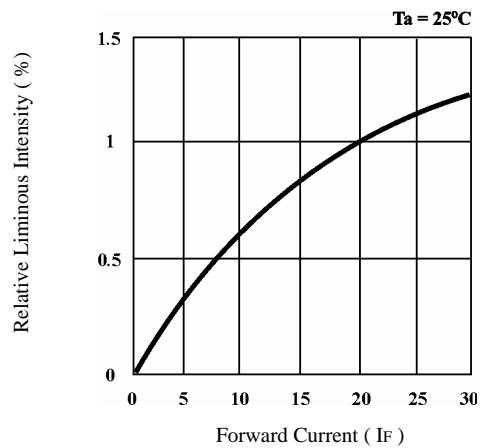
Forward Current VS Ambient Temperature



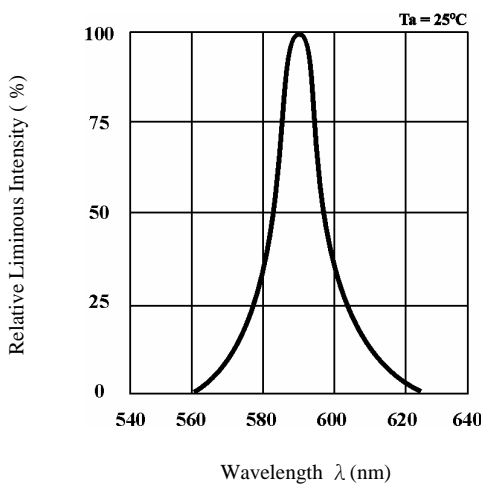
Luminous Intensity VS Ambient Temperature



Luminous Intensity VS Forward Current



Spectrum Distribution



Viewing Angle Diagram

