

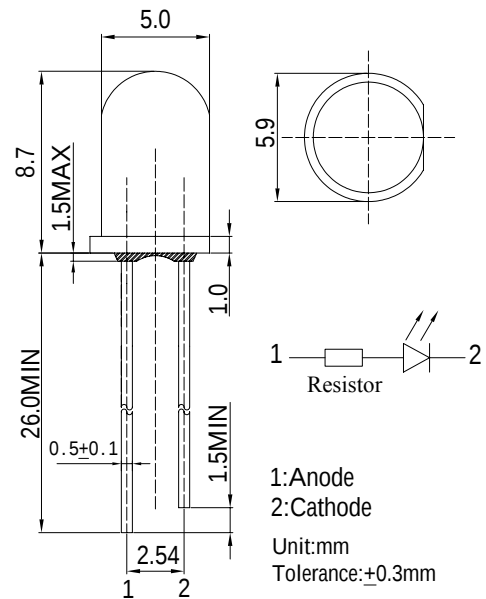
### ■ Features

- High Luminous LEDs
- 5mm Round Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Integral Current Limiting Resistor
- TTL Compatible (Requires No External Current Limiter With 12 Volt Supply)
- Cost Effective (Saves Space and Resistor Cost)
- Color Diffused Type

### ■ Applications

- Status Indicators
- Other Lighting

### ■ Outline Dimension

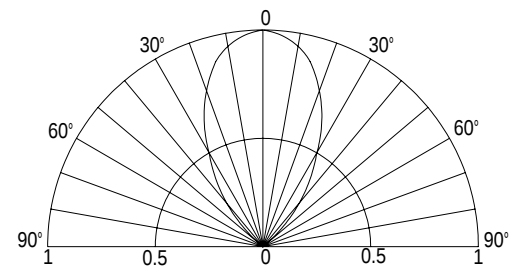


### ■ Absolute Maximum Rating

(Ta=25 °C)

| Item                       | Symbol    | Value      | Unit |
|----------------------------|-----------|------------|------|
| DC Forward Voltage         | $V_F$     | 12         | V    |
| Reverse Voltage            | $V_R$     | 5          | V    |
| Power Dissipation          | $P_D$     | 120        | mW   |
| Operating Temperature      | $T_{opr}$ | -30 ~ +85  |      |
| Storage Temperature        | $T_{stg}$ | -40 ~ +100 |      |
| Lead Soldering Temperature | $T_{sol}$ | 260 /5sec  | -    |

### ■ Directivity



### ■ Electrical -Optical Characteristics

(Ta=25 °C)

| Item                | Symbol          | Condition   | Min. | Typ. | Max. | Unit    |
|---------------------|-----------------|-------------|------|------|------|---------|
| DC Forward Current  | $I_F$           | $V_F = 12V$ | -    | 10   | 15   | mA      |
| DC Reverse Current  | $I_R$           | $V_R = 5V$  | -    | -    | 10   | $\mu A$ |
| Domi. Wavelength*   | $\lambda_D$     | $V_F = 12V$ | 630  | 640  | 650  | nm      |
| Luminous Intensity* | $I_v$           | $V_F = 12V$ | 100  | 130  | -    | mcd     |
| 50% Power Angle     | $2\theta_{1/2}$ | $V_F = 12V$ | -    | 60   | -    | deg     |

\*1 Tolerance of dominant wavelength is  $\pm 1nm$

\*2 Tolerance of luminous intensity is  $\pm 15\%$

## AlGaInP and Si Resistor LED

### TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

