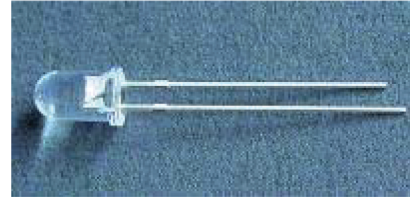


## Features

- High efficiency
- Low Power consumption
- General purpose leads
- Selected minimum intensities
- Available on tape and reel
- Pb free



## Descriptions

- The LED lamps are available with different colors, intensities, epoxy colors, etc

## Usage Notes:

- Surge will damage the LED
- When using LED, it must use a protective resistor in series with DC current about 20mA

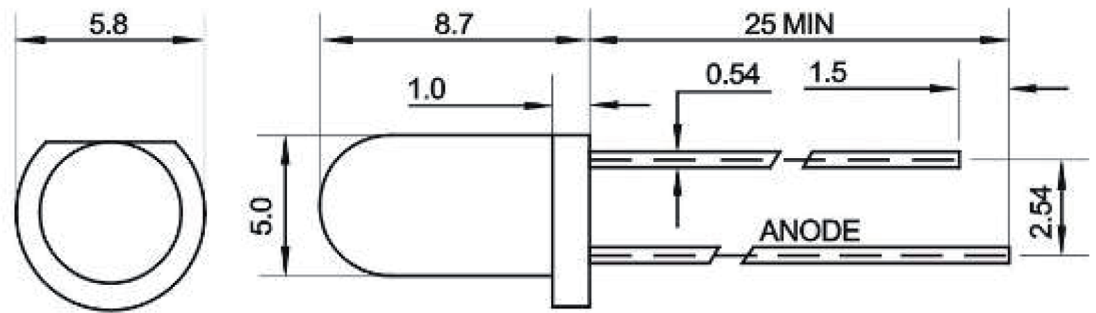
## Applications

- Status indicators
- Commercial use
- Advertising Signs
- Back lighting

## Device Selection Guide

|  | Chip     |               | Lens Color  |
|--|----------|---------------|-------------|
|  | Material | Emitted Color |             |
|  | AlGaInP  | Green         | Water clear |

## Package Dimensions



UNIT:mm

## Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

### Absolute Maximum Rating (T<sub>a</sub>=25°C)

| Parameter             | Symbol           | Absolute Maximum Rating | Unit |
|-----------------------|------------------|-------------------------|------|
| Forward Pulse Current | I <sub>FPM</sub> | 100                     | mA   |
| Forward Current       | I <sub>FM</sub>  | 30                      | mA   |
| Reverse Voltage       | V <sub>R</sub>   | 5                       | V    |
| Power Dissipation     | P <sub>D</sub>   | 90                      | mW   |
| Operating Temperature | Topr             | -40~+80                 | °C   |
| Storage Temperature   | Tstg             | -40~+100                | °C   |
| Soldering Heat (5s)   | Tsol             | 260                     | °C   |

### Electro-Optical Characteristics (T<sub>a</sub>=25°C)

| Parameter                | Symbol            | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|-------------------|------|------|------|------|----------------|
| Luminous Intensity       | I <sub>v</sub>    | 1000 | ---  | 2000 | mcd  | IF=20mA(Note1) |
| Viewing Angle            | 2θ <sub>1/2</sub> | ---  | 15   | ---  | Deg  | (Note 2)       |
| Peak Emission Wavelength | λ <sub>p</sub>    | 565  | 570  | 575  | nm   | IF=20mA        |
| Spectral Line Half-Width | Δλ                | 15   | 20   | 25   | nm   | IF=20mA        |
| Forward Voltage          | V <sub>F</sub>    | 1.9  | ---  | 2.3  | V    | IF=20mA        |
| Reverse Current          | I <sub>R</sub>    | ---  | ---  | 10   | μA   | VR=5V          |

#### Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

## Typical Electro-Optical Characteristics Curves

