

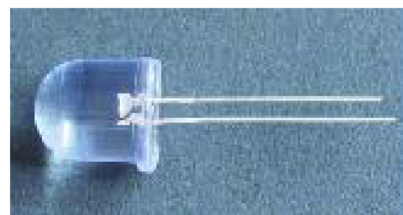
## Datasheet

Item no. 1573762

V1\_0617\_01\_DT\_ds\_en

### Features

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



### Descriptions

- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors, intensities, epoxy colors, etc
- Superior performance in outdoor environment

### Usage Notes:

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

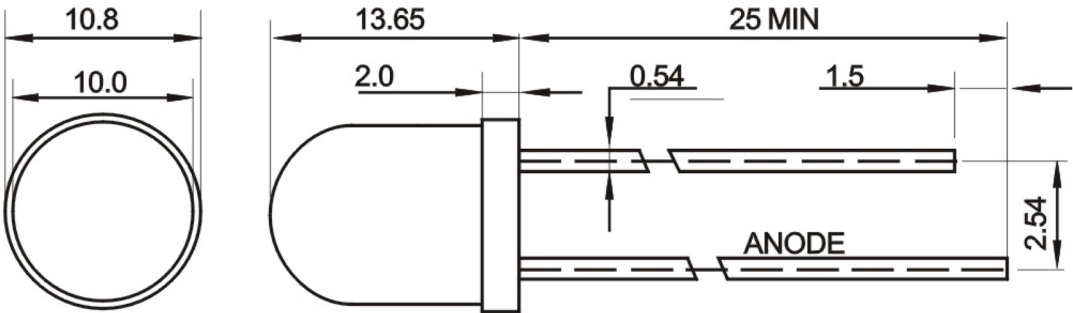
### Applications

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

Device Selection Guide

|  | Chip     |               | Lens Color  |
|--|----------|---------------|-------------|
|  | Material | Emitted Color |             |
|  | InGaN    | White         | 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> | 70                      | mA   |
| Forward Current       | I <sub>FM</sub>  | 30                      | mA   |
| Reverse Voltage       | V <sub>R</sub>   | 5                       | V    |
| Power Dissipation     | P <sub>D</sub>   | 140                     | mW   |
| Operating Temperature | T <sub>opr</sub> | -40~+80                 | °C   |
| Storage Temperature   | T <sub>stg</sub> | -40~+100                | °C   |
| Soldering Heat (5s)   | T <sub>sol</sub> | 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>    | 2000 | 3500 | ---  | mcd  | IF=20mA(Note 1) |
| Viewing Angle            | 2θ <sub>1/2</sub> | ---  | 25   | ---  | Deg  | (Note 2)        |
| Peak Emission Wavelength | λ <sub>p</sub>    | ---  | ---  | ---  | nm   | IF=20mA         |
| Spectral Line Half-Width | △λ                | 25   | 30   | 35   | nm   | IF=20mA         |
| Forward Voltage          | V <sub>F</sub>    | 2.9  | ---  | 3.3  | 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

