

**3mm Round LED (T-1) Small Flange with Stand-Off**

**Features**

- Popular T-1 diameter package
- Choice of various viewing angles
- Reliable and robust
- RoHS compliance



**T-1**



**Descriptions**

- The series is specially designed for applications requiring higher brightness.
- The LED lamps are available with different colors, intensities.

**Applications**

- TV set
- Monitor
- Telephone
- Computer

**Device Selection Guide**

| Part No.         | Chip     |               | Lens Color  |
|------------------|----------|---------------|-------------|
|                  | Material | Emitted Color |             |
| TLH-J1R3S-2647A3 | AllnGaP  | Sunset Orange | Water Clear |

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## TLH-J1R3S-2647A3

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

| Parameter                      | Symbol      | Value      | Unit |
|--------------------------------|-------------|------------|------|
| Reverse Voltage                | <b>VR</b>   | 5          | V    |
| Continuous Forward Current     | <b>IF</b>   | 25         | mA   |
| Power Dissipation              | <b>Pd</b>   | 60         | mW   |
| Electrostatic Discharge        | <b>ESD</b>  | 2000       | V    |
| Soldering Temperature (Note.1) | <b>Tsol</b> | 260 ±5     | °C   |
| Operating Temperature          | <b>Topr</b> | -40 ~ +85  | °C   |
| Storage Temperature            | <b>Tstg</b> | -40 ~ +100 | °C   |

**Note:** 1. Soldering time ≤ 5 seconds

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

| Parameter                    | Symbol       | Min.  | Typ.  | Max.  | Unit | Condition |
|------------------------------|--------------|-------|-------|-------|------|-----------|
| Luminous Intensity           | <b>Iv</b>    | 160   | 320   | ----- | mcd  | IF =20mA  |
| Viewing Angle                | <b>2θ1/2</b> | ----- | 40    | ----- | deg  |           |
| Peak wavelength              | <b>λp</b>    | ----- | 621   | ----- | nm   |           |
| Dominant wavelength          | <b>λd</b>    | ----- | 615   | ----- | nm   |           |
| Spectrum Radiation Bandwidth | <b>Δλ</b>    | ----- | 18    | ----- | nm   |           |
| Forward Voltage              | <b>VF</b>    | ----- | 2.0   | 2.4   | V    |           |
| Reverse Current              | <b>IR</b>    | ----- | ----- | 10    | μA   | VR=5V     |

**Notes:** Tolerance of Luminous Intensity: ±10%

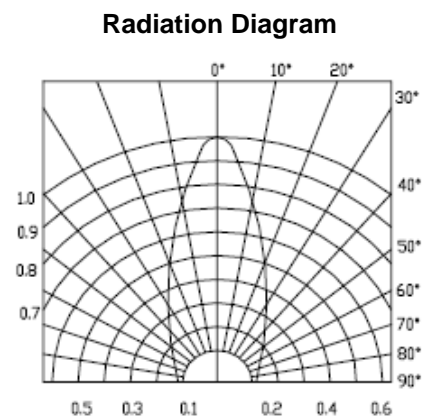
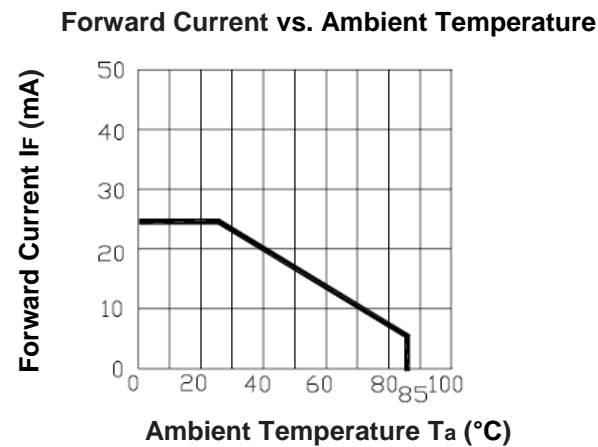
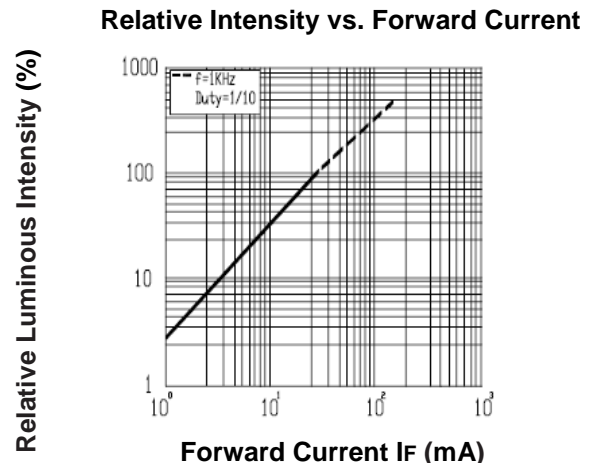
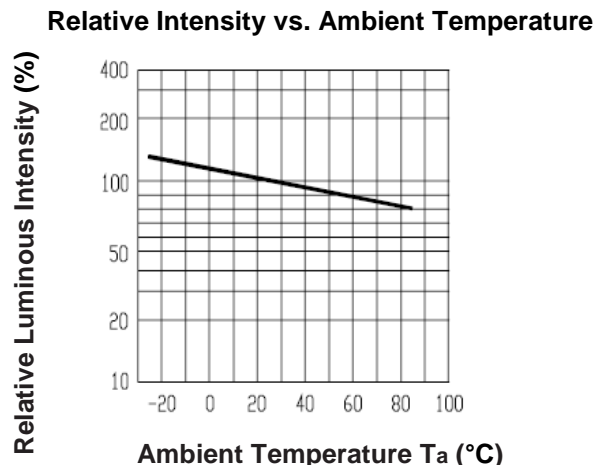
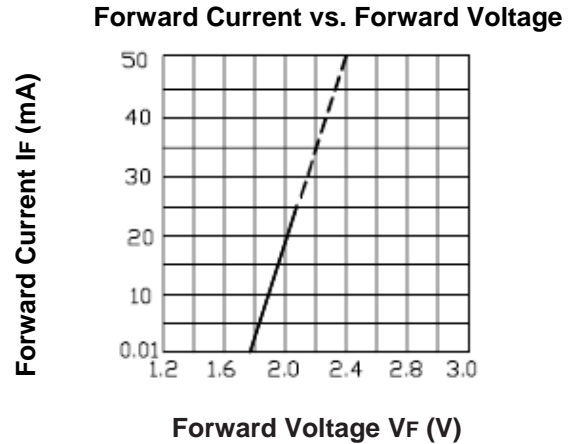
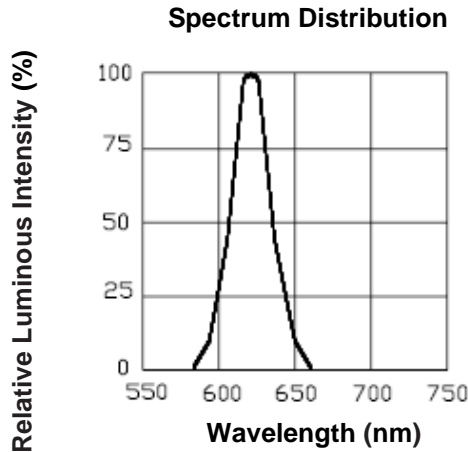
Tolerance of Dominant wavelength: ±1.0nm

Tolerance of Forward Voltage: ±0.1V

# 3mm Round LED Small Flange with Stand-Off

## TLH-J1R3S-2647A3

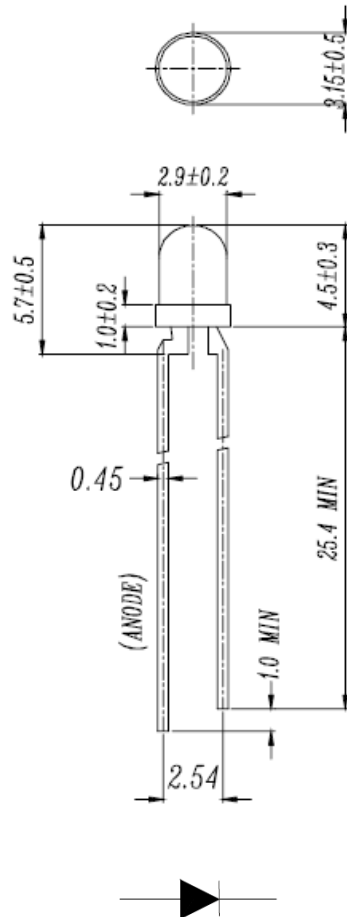
### Typical Electro-Optical Characteristics Curves (Ta=25°C)



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## TLH-J1R3S-2647A3

### Package Dimensions (In mm)



#### Note:

1. All dimensions are in millimeters, and tolerance is 0.25mm without special declared.
2. The height of flange must be less than 1.5mm.

### Packing Quantity Specification

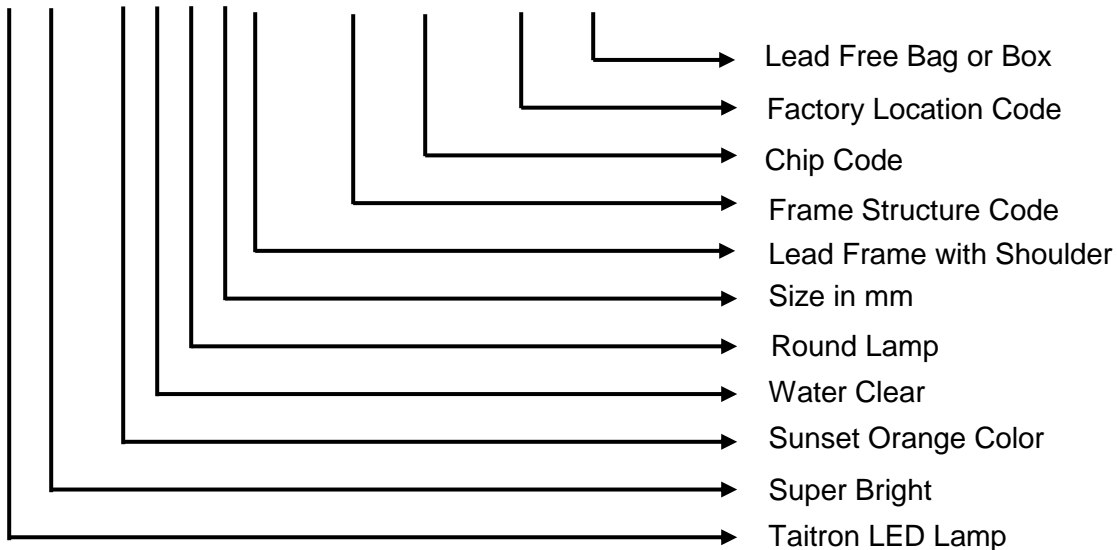
| Packing Type | PCS per Bag | PCS Per Inner Box | PCS Per Carton |
|--------------|-------------|-------------------|----------------|
| Bulk         | 1,000       | 4,000             | 40,000         |

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## TLH-J1R3S-2647A3

### Ordering Information

TL H - J 1 R 3 S - 2647 A3 - 92 - BL

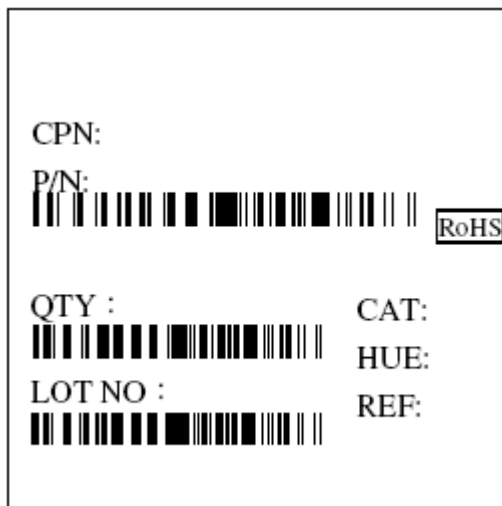


### Label Explanation

CAT: Ranks

HUE: Dominant Wavelength

REF: Reference



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