

3mm Round LED (T-1)

Features

- Popular T-1 diameter package
- High luminous power
- Can be driven at low current
- 2.54mm lead spacing



T-1



Descriptions

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

Applications

- TV set
- Monitor
- Telephone
- Computer

Device Selection Guide

| Part No. | Chip | | Lens Color |
|---------------|----------|----------------|-------------|
| | Material | Emitted Color | |
| TLN-H1R3-1224 | GaAIAs | Deep Hyper Red | Water Clear |

Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

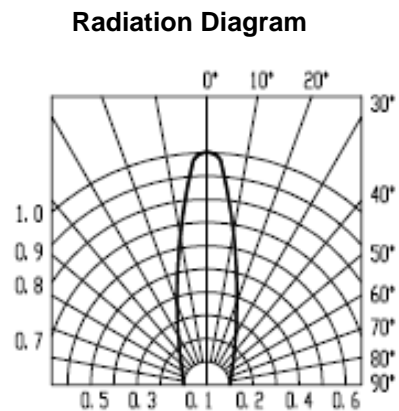
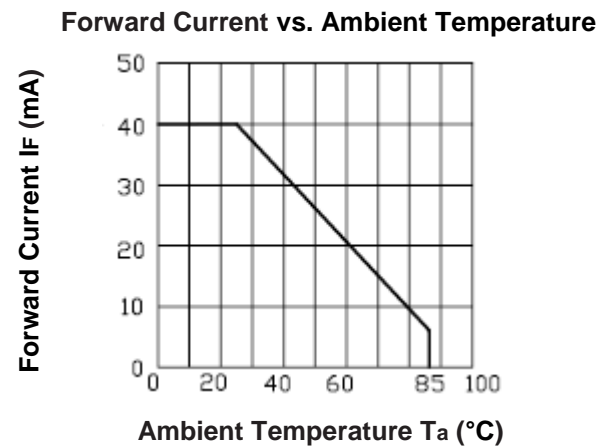
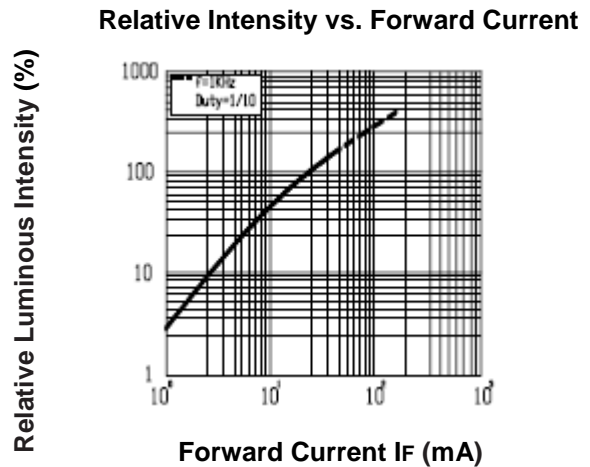
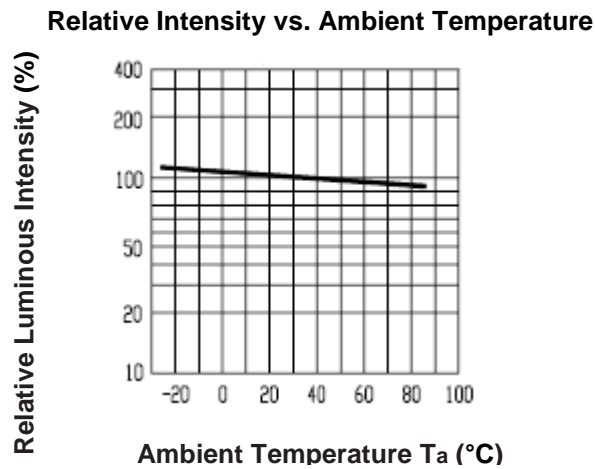
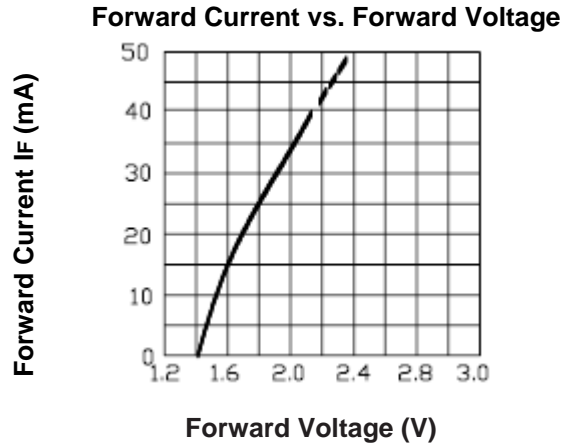
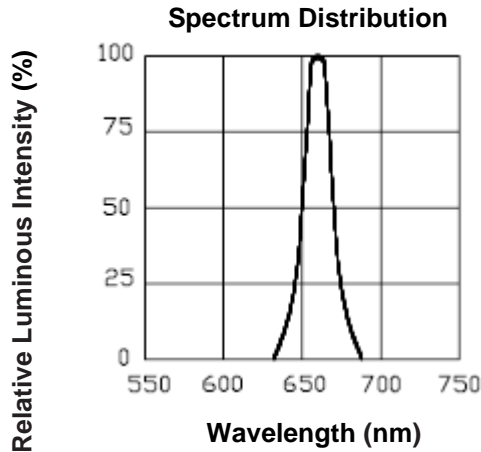
| Parameter | Symbol | Value | Unit |
|---------------------------------------|-------------|-------------|--------------------|
| Reverse Voltage | VR | 5 | V |
| Continuous Forward Current | IF | 40 | mA |
| Power Dissipation | Pd | 110 | mW |
| Peak Forward Current (Duty 1/10@1KHZ) | IFP | 180 | mA |
| Soldering Temperature (Note.1) | Tsol | 260 \pm 5 | $^{\circ}\text{C}$ |
| Operating Temperature | Topr | -40 ~ +85 | $^{\circ}\text{C}$ |
| Storage Temperature | Tstg | -40 ~ +100 | $^{\circ}\text{C}$ |

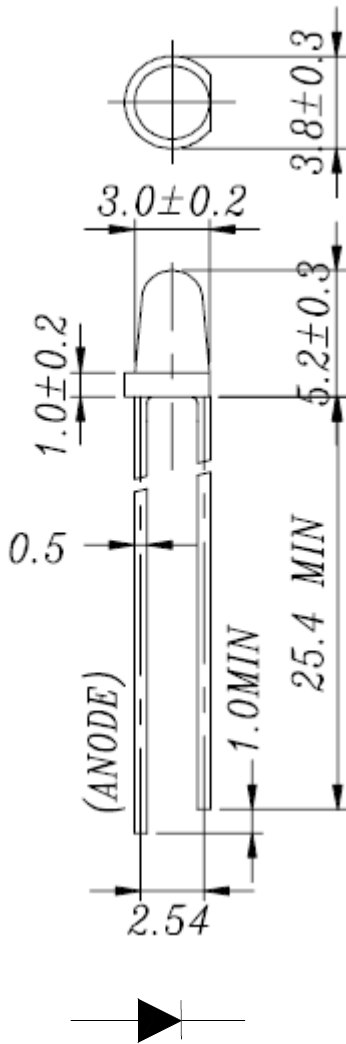
Note 1:Soldering time \leq 5 seconds**Electro-Optical Characteristics** ($T_a=25^{\circ}\text{C}$)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|------------------------------|-----------------------------------|-------|-------|-------|---------------|-----------|
| Luminous Intensity | Iv | 160 | 400 | ----- | mcd | IF =20mA |
| Viewing Angle | 2θ1/2 | ----- | 30 | ----- | deg | |
| Peak wavelength | λ_p | ----- | 660 | ----- | nm | |
| Dominant wavelength | λ_d | ----- | 643 | ----- | nm | |
| Spectrum Radiation Bandwidth | $\Delta\lambda$ | ----- | 20 | ----- | nm | |
| Forward Voltage | VF | 1.5 | 2.1 | 2.4 | V | |
| Reverse Current | IR | ----- | ----- | 10 | μA | VR=5V |

Notes: Tolerance of Luminous Intensity: $\pm 10\%$ Tolerance of Dominant wavelength: $\pm 1.0\text{nm}$ Tolerance of Forward Voltage: $\pm 0.1\text{V}$

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



Package Dimensions (In mm)**Note:**

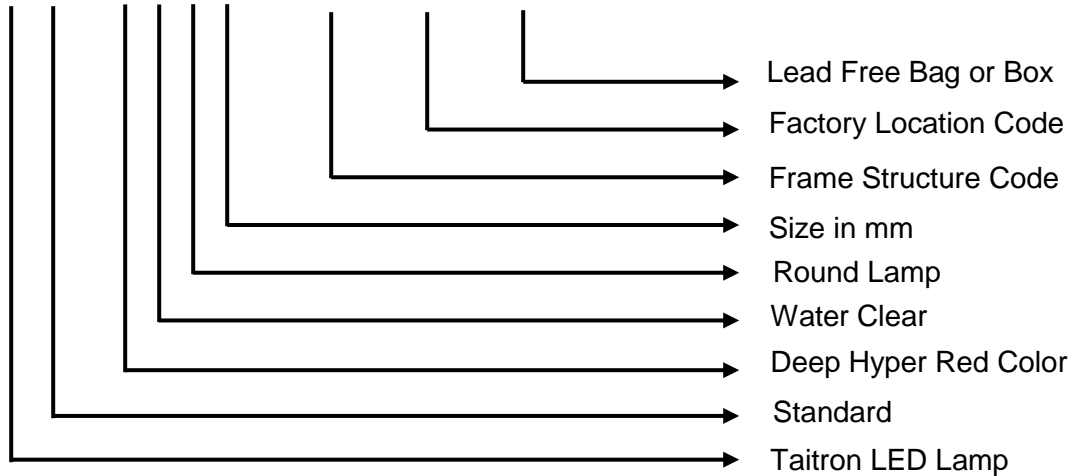
1. All dimensions are in millimeters, and tolerance is 0.25mm without special declared.
2. An epoxy meniscus may extend about 1.5mm down the lead.

Packing Quantity Specification

1. 1000 Pcs/1 Bag

Ordering Information

TL N - H 1 R 3 - 1224 - 92 - BL



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