

### 3mm Round LED (T-1)

#### Features

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



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	
TLN-R4R3-202	GaAsP/GaP	Hi-Eff Red	Color Diffused

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

Parameter	Symbol	Value	Unit
Reverse Voltage	<b>VR</b>	5	V
Continuous Forward Current	<b>IF</b>	30	mA
Peak Forward Current (Duty 1/10@1KHZ)	<b>IFP</b>	160	mA
Power Dissipation	<b>Pd</b>	100	mW
Operating Temperature	<b>Topr</b>	-40 ~ +85	°C
Storage Temperature	<b>Tstg</b>	-40 ~ +100	°C
Soldering Temperature (Note.1)	<b>Tsol</b>	260 ±5	°C

**Note 1:**

Soldering time ≤ 5 seconds

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

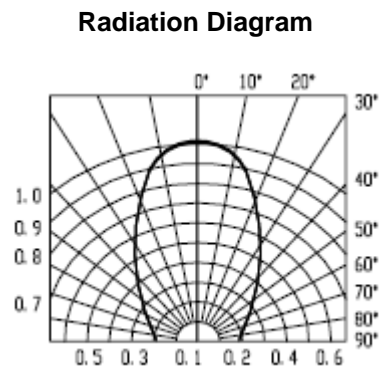
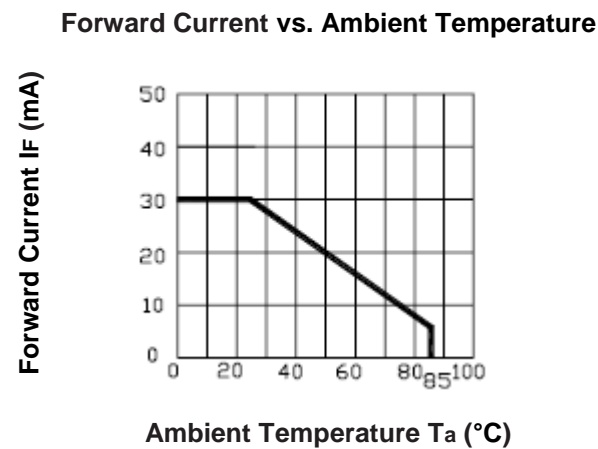
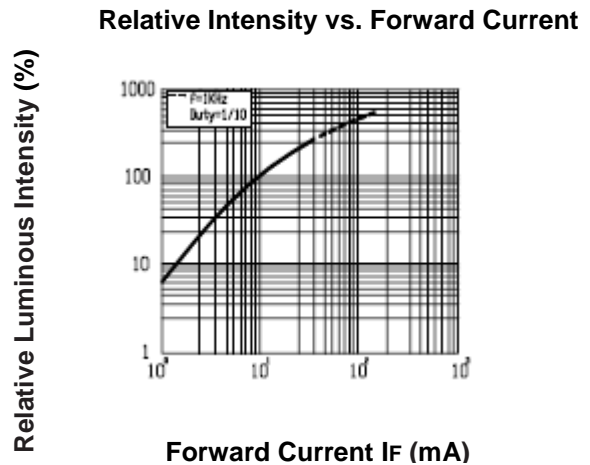
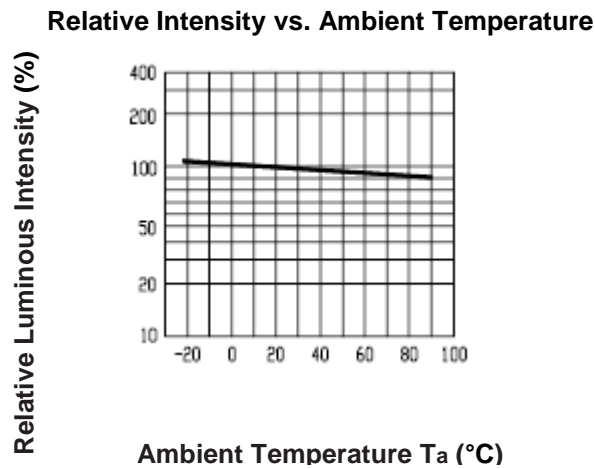
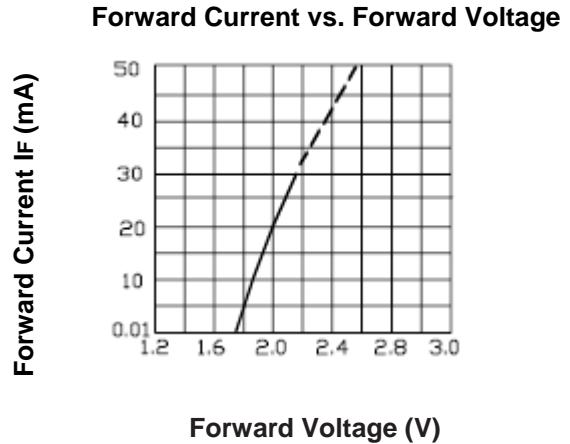
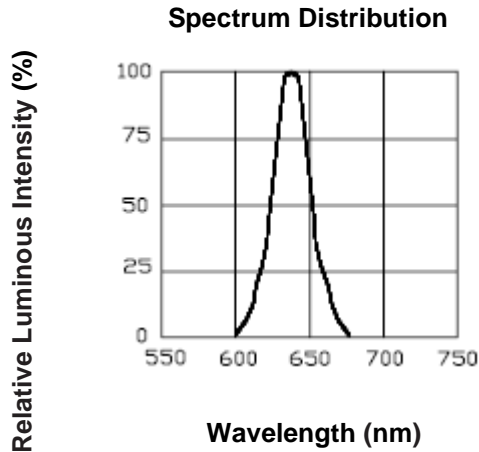
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	<b>Iv</b>	0.7	3.5	-----	mcd	IF =10mA
Viewing Angle	<b>2θ1/2</b>	-----	75	-----	deg	IF =20mA
Peak wavelength	<b>λp</b>	-----	635	-----	nm	
Dominant wavelength	<b>λd</b>	-----	625	-----	nm	
Spectrum Radiation Bandwidth	<b>Δλ</b>	-----	45	-----	nm	
Forward Voltage	<b>VF</b>	1.7	2.0	2.6	V	
Reverse Current	<b>IR</b>	-----	-----	10	μA	VR=5V

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

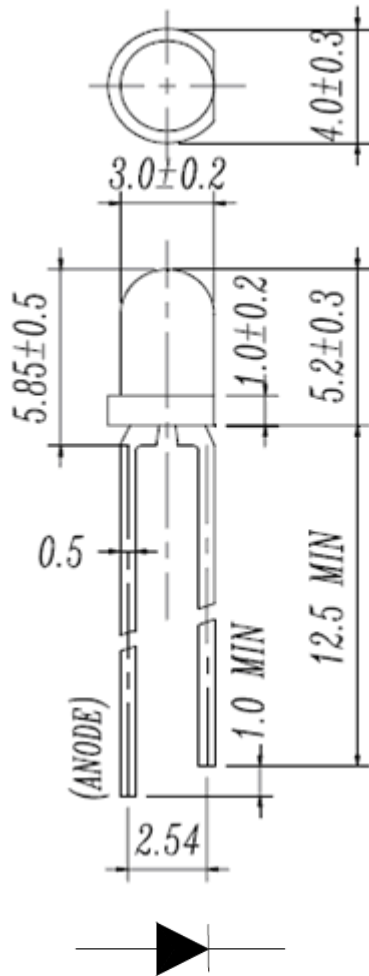
Tolerance of Dominant wavelength: ±1.0nm

Tolerance of Forward Voltage: ±0.1V

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



### Package Dimensions (In mm)



#### Note:

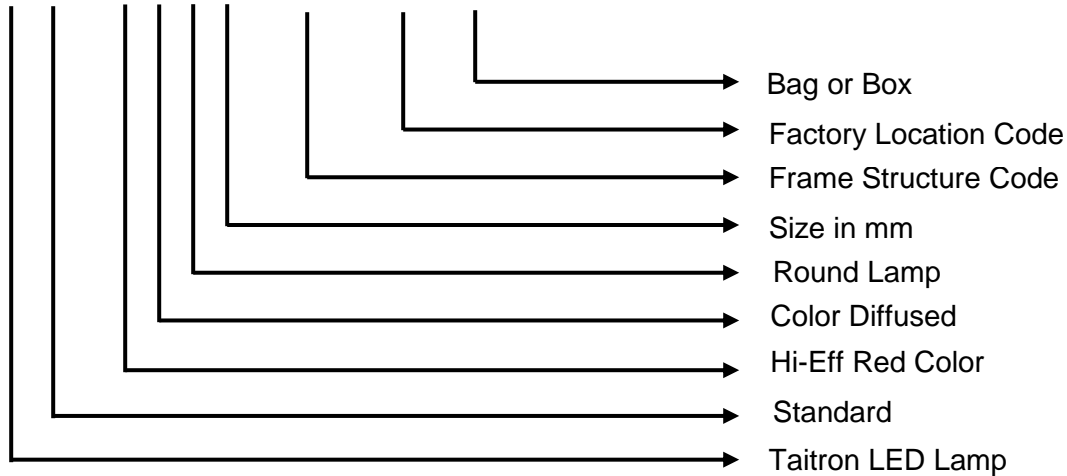
1. All dimensions are in millimeters, and tolerance is 0.25mm without special declared.
2. An epoxy meniscus may extend about 1.5mm down the lead.

### Packing Quantity Specification

Packing Type	PCS per Bag	PCS Per Inner Box	PCS Per Carton
Bulk	1,000	5,000	25,000

### Ordering Information

TL N - R 4 R 3 - 202 - 92 - B



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