

## 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	
TLH-X1R3-1224/S190M	AllnGaP	Super Yellow	Water Clear

# 3mm Round LED

## TLH-X1R3-1224/S190M

### 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

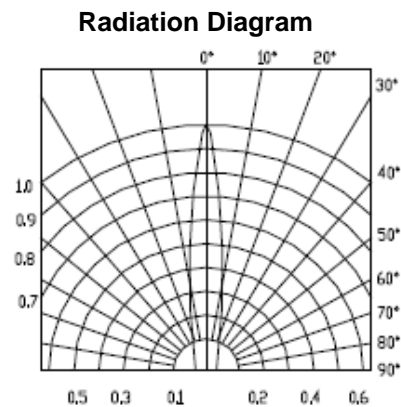
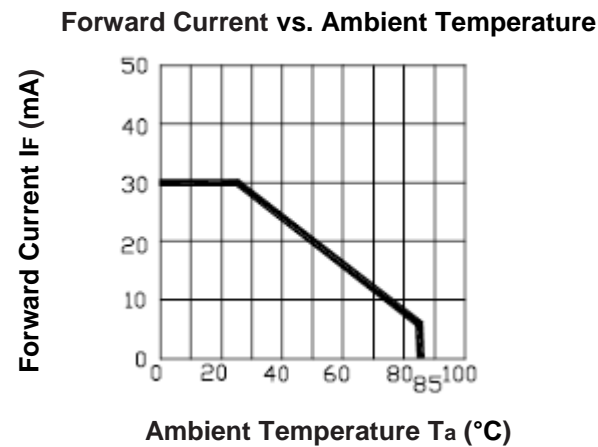
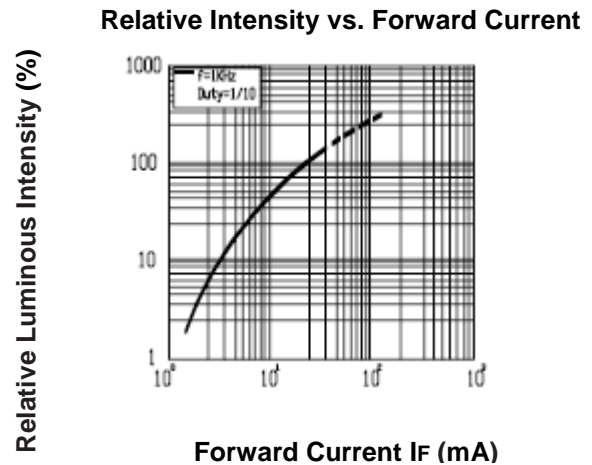
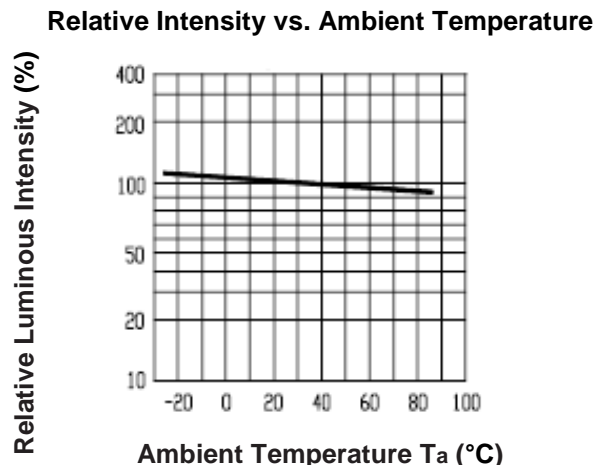
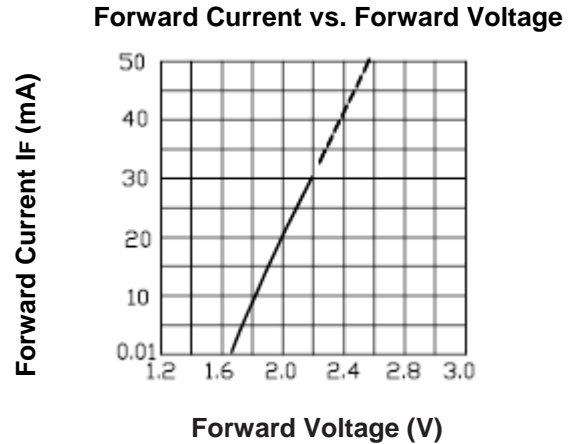
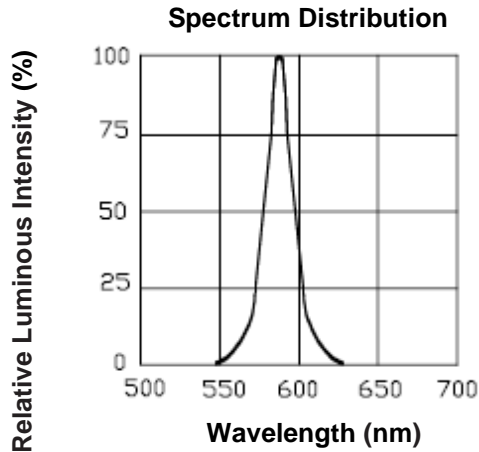
**Note 1:**

Soldering time ≤ 5 seconds

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	<b>Iv</b>	400	630	-----	mcd	IF =20mA
Viewing Angle	<b>2θ1/2</b>	-----	15	-----	deg	
Peak wavelength	<b>λp</b>	-----	595	-----	nm	
Dominant wavelength	<b>λd</b>	-----	590	-----	nm	
Spectrum Radiation Bandwidth	<b>Δλ</b>	-----	15	-----	nm	
Forward Voltage	<b>VF</b>	1.7	2.1	2.8	V	
Reverse Current	<b>IR</b>	-----	-----	10	μA	VR=5V

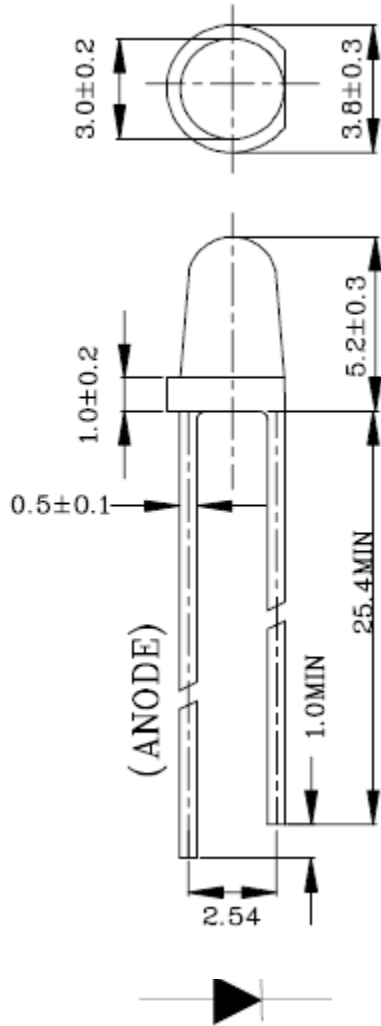
### Typical Electro-Optical Characteristics Curves (Ta=25°C)



# 3mm Round LED

## TLH-X1R3-1224/S190M

### Package Dimensions (In mm)



#### Note:

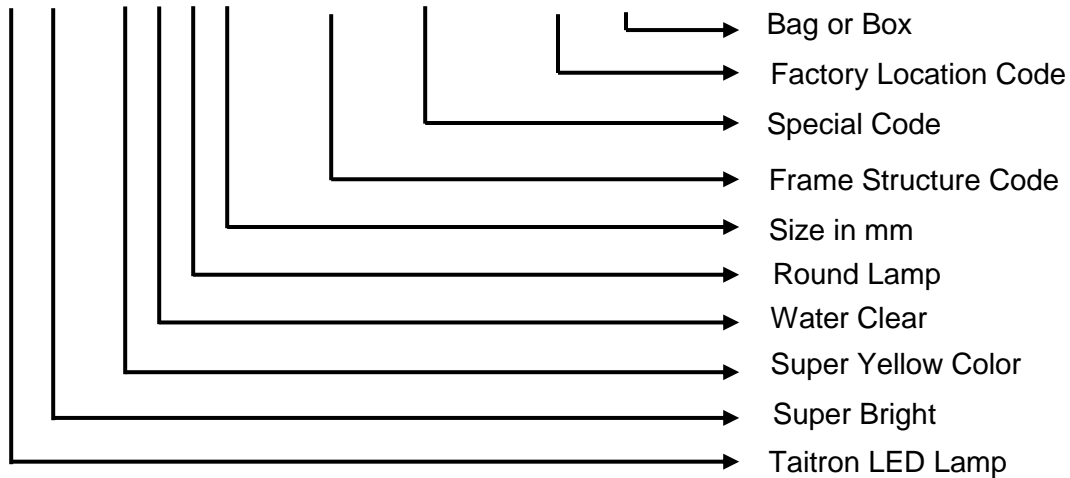
1. All dimensions are in millimeters, and tolerance is 0.25mm without special declared.
2. An epoxy meniscus may extend about 1.5mm down the lead.

### Packing Quantity Specification

1. 1000 Pcs/1 Bag

Ordering Information

TL H - X 1 R 3 - 1224 S190M - 92 - B



How to contact us

**USA HEADQUARTERS**  
28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162  
Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060  
Fax: (800)-TAITFAX (800)-824-8329 (661)-257-6415  
Email: [taitron@taitroncomponents.com](mailto:taitron@taitroncomponents.com)  
Http://[www.taitroncomponents.com](http://www.taitroncomponents.com)

**TAITRON COMPONENTS INCORPORATED TAIWAN, TAIPEI**  
6F., No.190, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 23146, Taiwan R.O.C.  
Tel: 886-2-2913-6238  
Fax: 886-2-2913-6239

**TAITRON COMPONENT TECHNOLOGY, SHANGHAI CORPORATION**  
METROBANK PLAZA, 1160 WEST YAN'AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA  
Tel: +86-21-5424-9942  
Fax: +86-21-2302-5027