



5mm x 5mm  
SQUARE LAMP LED  
TLN-H4Q5-583

## 5mm x 5mm Square Lamp LED

### Features

- Choice of various viewing angles
- Reliable and robust
- RoHS compliance

### Descriptions

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



QRLNH4Q5



### Applications

- TV set
- Monitor
- Telephone
- Computer

### Device Selection Guide

| Part No.     | Chip     |               | Lens Color     |
|--------------|----------|---------------|----------------|
|              | Material | Emitted Color |                |
| TLN-H4Q5-583 | GaP      | Bright Red    | Color Diffused |

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

| Parameter                             | Symbol      | Value      | Unit |
|---------------------------------------|-------------|------------|------|
| Reverse Voltage                       | <b>VR</b>   | 5          | V    |
| Continuous Forward Current            | <b>IF</b>   | 15         | mA   |
| Power Dissipation                     | <b>Pd</b>   | 45         | mW   |
| Peak Forward Current (Duty 1/10@1KHZ) | <b>IF</b>   | 50         | mA   |
| 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

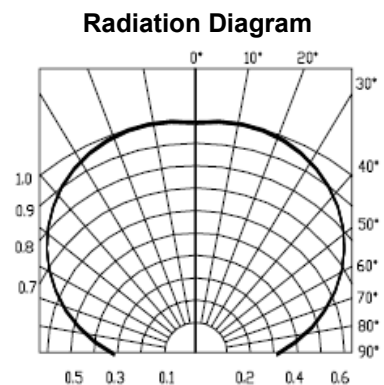
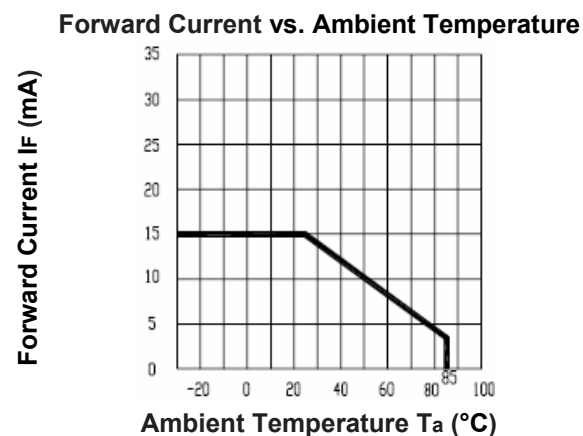
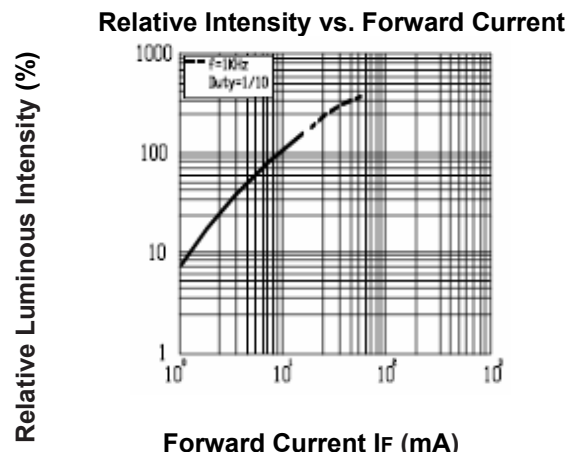
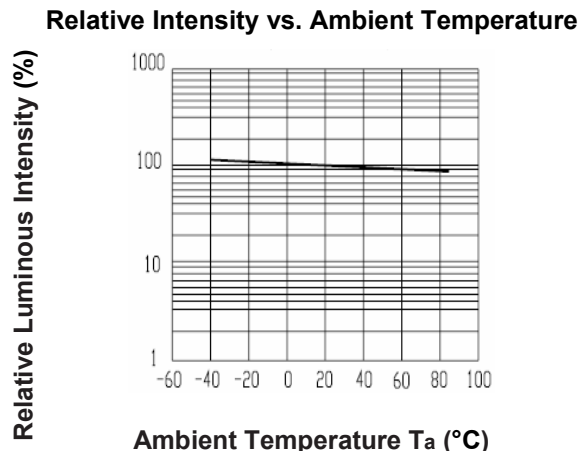
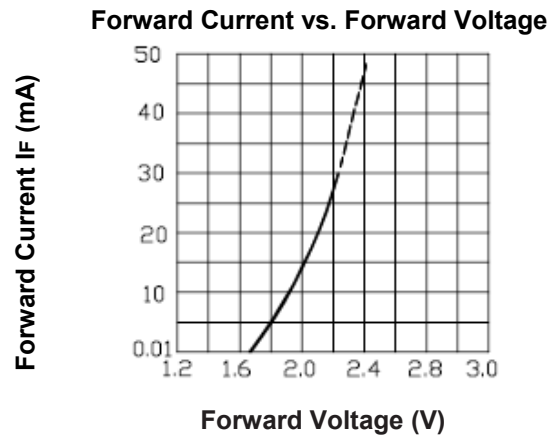
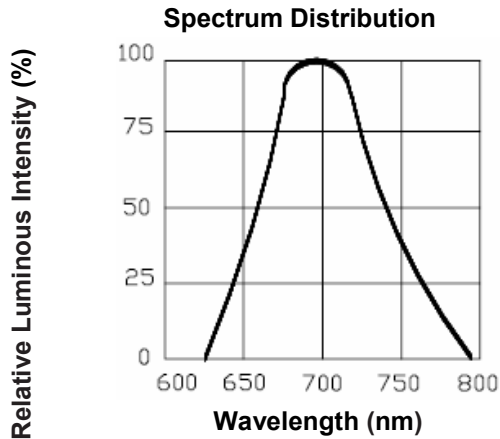
### Electro-Optical Characteristics (Ta=25°C)

| Parameter                    | Symbol       | Min.  | Typ.  | Max.  | Unit | Condition |
|------------------------------|--------------|-------|-------|-------|------|-----------|
| Luminous Intensity           | <b>Iv</b>    | 0.5   | 2.3   | ----- | mcd  | IF =10mA  |
| Viewing Angle                | <b>2θ1/2</b> | ----- | 150   | ----- | deg  |           |
| Peak wavelength              | <b>λp</b>    | ----- | 697   | ----- | nm   |           |
| Dominant wavelength          | <b>λd</b>    | ----- | 650   | ----- | nm   |           |
| Spectrum Radiation Bandwidth | <b>Δλ</b>    | ----- | 90    | ----- | nm   |           |
| Forward Voltage              | <b>VF</b>    | 1.7   | 2.1   | 2.4   | V    | VR=5V     |
| Reverse Current              | <b>IR</b>    | ----- | ----- | 10    | μA   |           |

## 5mm x 5mm Square Lamp LED

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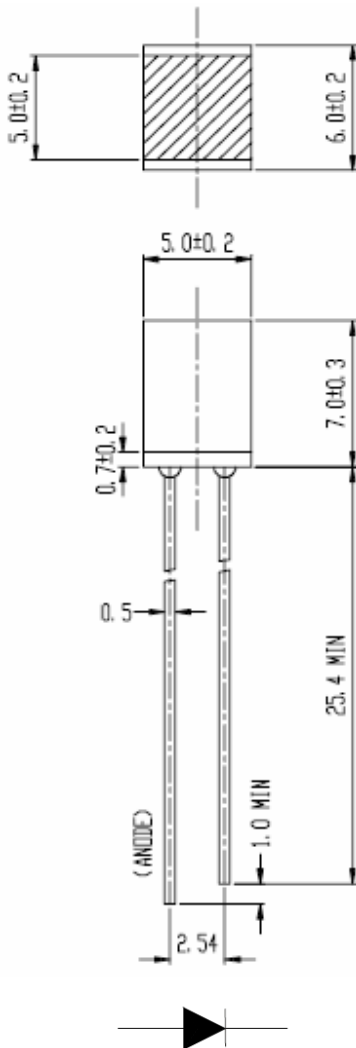
### Typical Electro-Optical Characteristics Curves ( $T_a=25^\circ\text{C}$ )



## 5mm x 5mm Square Lamp LED

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### 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

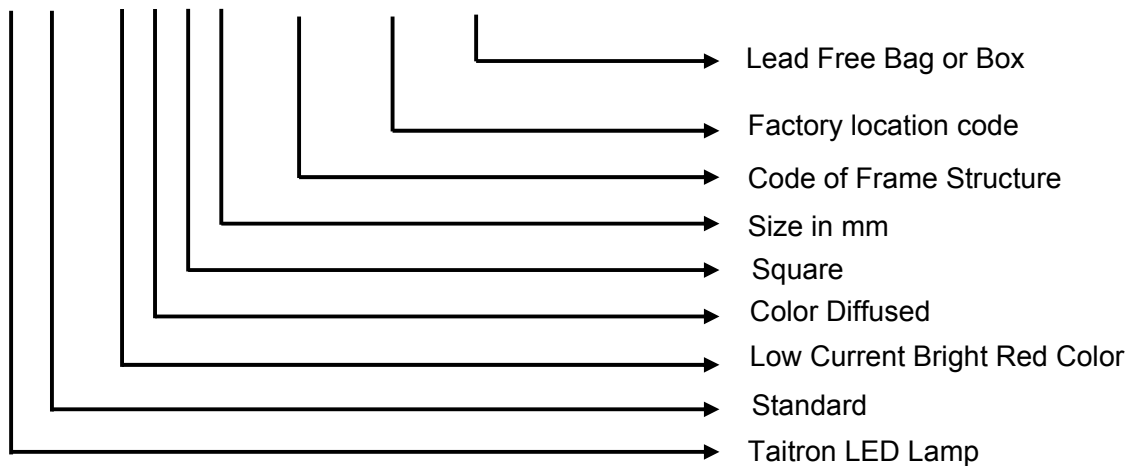
1. 1000 PCS/1 Bag, 5 Bags/1 Box
2. 10 Boxes/1 Carton

## 5mm x 5mm Square Lamp LED

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### Ordering Information

TL N – H 4 Q 5 – 583– XX – BL



## 5mm x 5mm Square Lamp LED

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### How to contact us

#### **US 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 MEXICO, S.A .DE C.V.**

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO

C.P. 42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

#### **TAITRON COMPONETS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA**

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001

BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

#### **TAITRON COMPONETS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE**

METROBANK PLAZA, 1160 WEST YAN'AN ROAD, SUITE 1502, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931