

LTH5MM12V Series 5mm (T-1 3/4) Through Hole LED Built in Resistor for 12VDC

LTH5MM12VFR4600 - Blue Water-Clear T-1 3/4 (5 mm) LED



Applications

- Automotive
- Indoor and Outdoor Indication
- Industrial
- Appliances and Consumer Equipments
- Storage Servers

Key Features

- Made with InGaN (Blue)
- Through-hole technology
- Integrated resistor for 12VDC operation
- With Flange
- Water-Clear Lens
- LED Bulb Size: 5mm (T-1 3/4), also available in 3mm (T-1)

• RoHS and REACH Compliant

Residential and Landscape Lighting

• High-Brightness LED

Electronic Devices

Infrastructure

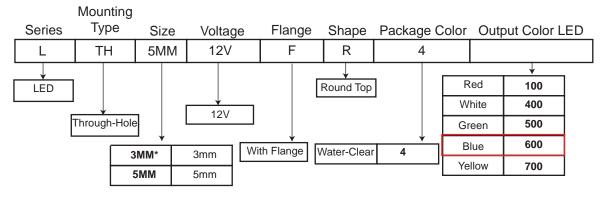
Boats

Railway

- Available in 5 colors (red, green, white, blue and yellow)
- Viewing Angle: 16° (red, green, yellow) and 20° (blue, white)
- Moisture Sensitive Level (MSL): 2

Ordering Data

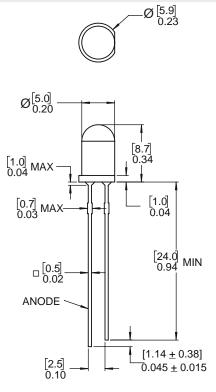
The LTH5MM12V Series is available in a range of standard features and options. To specify your LED, simply choose one option from each column.



Part NumbersColorLTH5MM12VFR4100RedLTH5MM12VFR4400WhiteLTH5MM12VFR4500GreenLTH5MM12VFR4600BlueLTH5MM12VFR4700Yellow

*For 3mm option, please consult LTH3MM12V Series' datasheet

Product Dimensions



Notes:

- 1. All dimensions are in [millimeters] inches.
- 2. Tolerance is \pm [0.25] 0.01 unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

your first call for illuminated components

Product Dimensions

| ABSOLUTE MAXIMUM RATINGS | | | (Ta=25°C) | |
|---|------------------|---------------------|-----------|--|
| Parameter | Symbol | Ratings | Unit | |
| Peak Forward Current (duty 1/10 @ 1KHz) | IFP | 100 | mA | |
| Recommended Operating Current | IF(REC) | 20 | mA | |
| Power Dissipation | PD | 85 | mW | |
| Reverse Voltage | Vr | 5 | V | |
| Electrostatic Discharge | ESD | 200 | V | |
| Operating Temperature Range | T _{OPR} | -40~+85 | °C | |
| Storage Temperature Range | T _{STG} | -40~+100 | °C | |
| Lead Soldering Temperature Range 1.6mm (1/16 inch) from body | T _{SOL} | 260°C for 5 seconds | | |

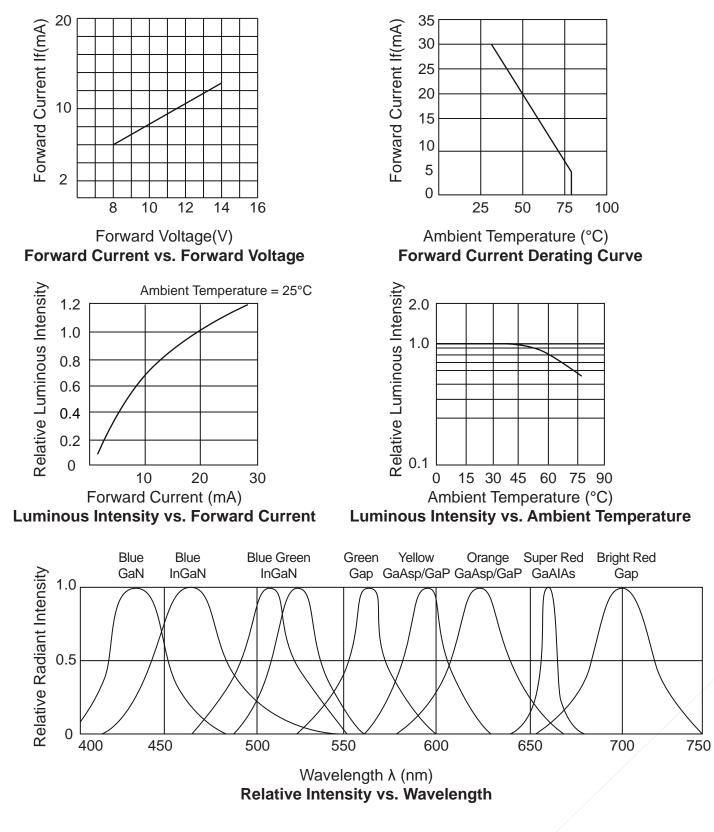
OPTICAL-ELECTRICAL CHARACTERISTICS

(Ta=25°C)

| Parameter | Symbol | Test Condition | Min | Тур | Мах | Unit |
|--------------------------|--------|----------------------|------|------|------|------|
| Luminous Intensity | Iv | I _F =12mA | 1500 | 2000 | 3000 | mcd |
| Peak Emission Wavelength | λp | | | 470 | | nm |
| Dominant Wavelength | λD | | 465 | 467 | 470 | nm |
| Forward Voltage | VF | | 11 | 12 | 13 | V |
| Spectral Line Half-Width | Δλ | | | 45 | | nm |
| Viewing Angle | 201⁄2 | | | 20 | | deg |
| Reverse Current | IR | V _R =5V | | | 10 | μA |

Product Specifications

Typical Electrical-Optical Characteristic Curves



www.vcclite.com

Application Notes

1. Storage

The Storage Temperature and RH are: 5°C ~ 30°C, RH 60% or less.

We suggest our customers use our products within a year.

If the moisture absorbent material (silica gel) has faded away or the LEDs exceeded the storage time, bake treat more than 24 hours at $60^{\circ}C \pm 5^{\circ}C$.

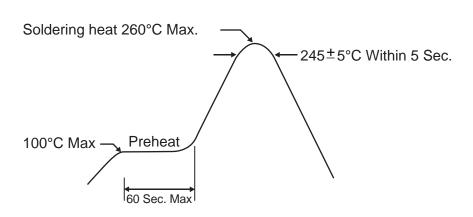
2. Electrostatic Discharge (ESD)

Static electricity or surge voltage will damage the LEDs.

Recommendations: Use a conductive wrist band or anti-electrostatic glove when handling these LEDs. All devices, equipment and machinery must be properly grounded.

Work tables, storage racks, etc. should be properly grounded. In the event of a manual working in process, make sure the devices are well protected from ESD at any time.

3. Recommended Soldering Condition

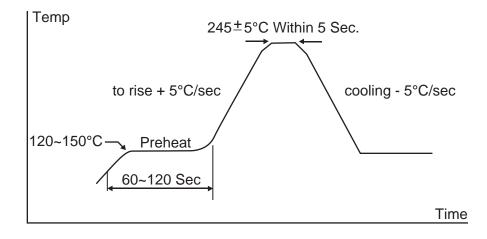


Soldering heat (DIP)

Temperature at tip of soldering iron: 350°C Max Soldering time: 3 sec ±1 sec (once only)

Application Notes

4. Reflow Profile



Compliances and Approvals



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