

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

LTH5MM12VFR4700 - Yellow Water-Clear T-1 3/4 (5 mm) LED



Applications

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

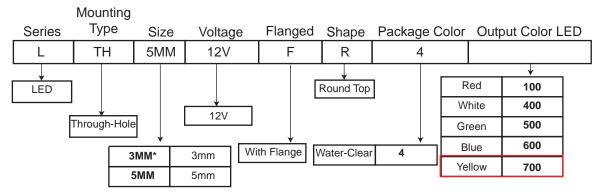
Key Features

- Made with InGaN (White)
- 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)

- Boats
- Railway
- Electronic Devices
- Residential and Landscape Lighting
- Infrastructure
- RoHS and REACH Compliant
- High-Brightness LED
- 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

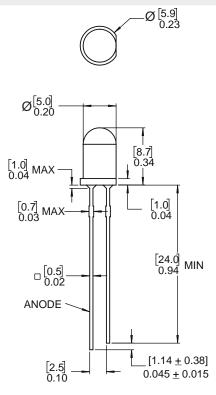
The LTH5MM12V Series is available in a range of standard features and options. To specify your LED, select one option from each column.



Part Numbers	Color
LTH5MM12VFR4100	Red
LTH5MM12VFR4400	White
LTH5MM12VFR4500	Green
LTH5MM12VFR4600	Blue
LTH5MM12VFR4700	Yellow

*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.

Product Dimensions

ABSOLUTE MAXIMUM RATINGS (Ta=25°				
Parameter	Symbol	Ratings	Unit	
Peak Forward Current (duty 1/10 @ 1KHz)	lfp	100	mA	
Recommended Operating Current	F(REC)	20	mA	
Power Dissipation	PD	85	mW	
Reverse Voltage	Vr	5	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	Tso∟	260°C for 5 seconds		

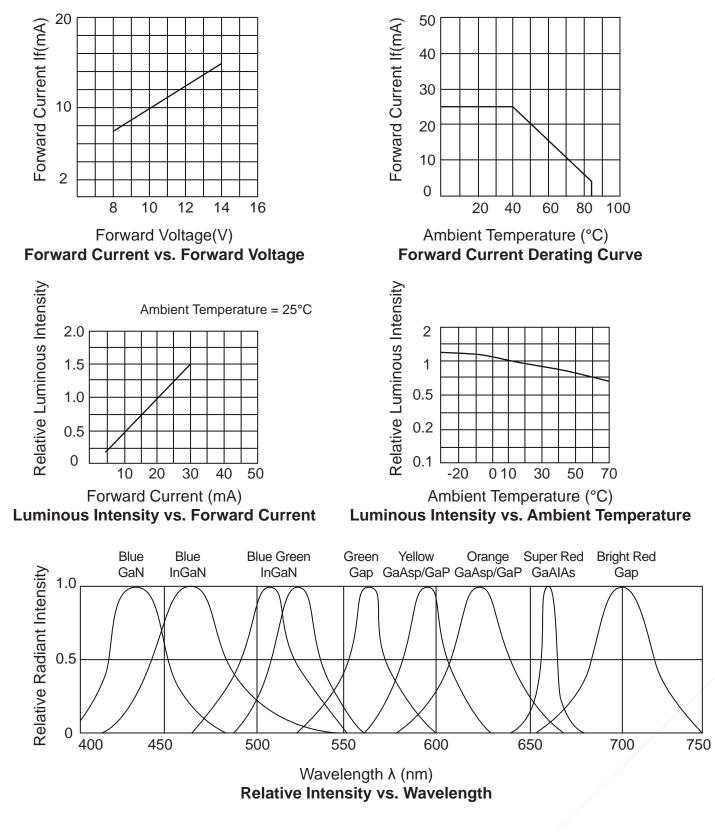
OPTICAL-ELECTRICAL CHARACTERISTICS

(Ta=25°C)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Luminous Intensity	Iv	I _F =12mA	3500	4500	6000	mcd
Peak Emission Wavelength	λp			590		nm
Dominant Wavelength	λD		588	592	595	nm
Forward Voltage	VF		10	12	13	V
Spectral Line Half-Width	Δλ			18		nm
Viewing Angle	201⁄2			16		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.

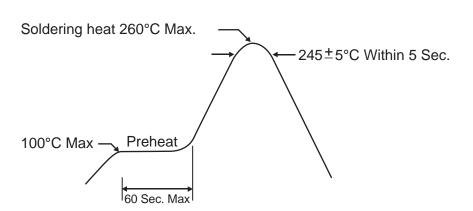
We suggest our customers use our products within a year.

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

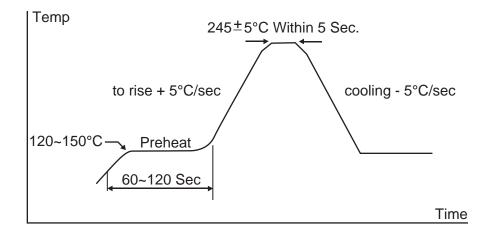


Soldering heat (DIP)

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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