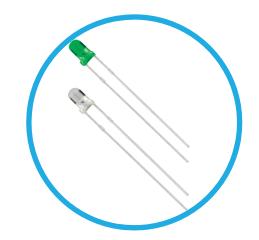


LTH3MM12V Series 3mm (T-1) Through Hole LED Built-in Resistor for 12VDC



LTH3MM12VFR4500 - Green Water-Clear T-1 (3 mm) LED



Applications

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

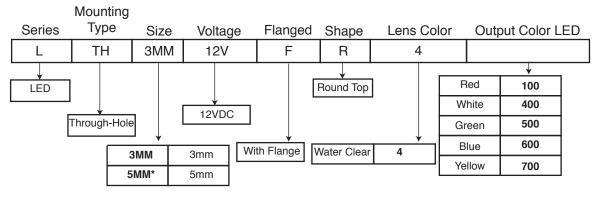
Key Features

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

- 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: 30° (red, green, blue, yellow) and 35° (white)
- Moisture Sensitive Level (MSL): 2

Ordering Data

The LTH3MM12V Series is available in a range of standard features and options. To specify your LED, simply choose one option from each column.

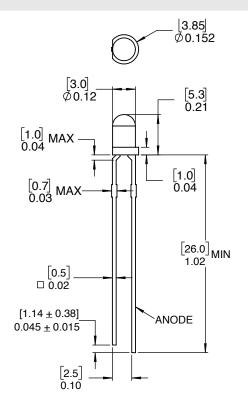


*For 5mm option, please consult

LTH5MM12V Series' datasheet

Part NumbersColorLTH3MM12VFR4100RedLTH3MM12VFR4400WhiteLTH3MM12VFR4500GreenLTH3MM12VFR4600BlueLTH3MM12VFR4700Yellow

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	Po	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		

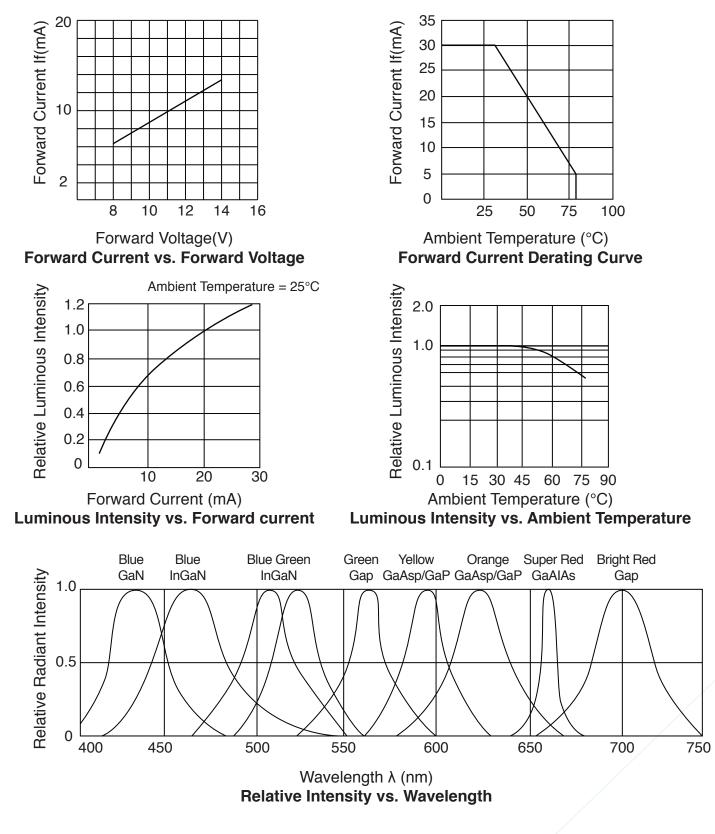
OPTICAL-ELECTRICAL CHARACTERISTICS

(Ta=25°C)

Parameter	Symbol	Test Condition	Min	Тур	Мах	Unit
Luminous Intensity	Iv	I _F =10mA	3500	5000	7500	mcd
Peak Emission Wavelength	λp			522		nm
Dominant Wavelength	λD			522		nm
Forward Voltage	VF		10	12	13	V
Spectral Line Half-Width	Δλ			36		nm
Viewing Angle	201⁄2			30		deg
Reverse Current	lr	V _R =5V			10	μΑ

Product Specifications

Typical Electrical-Optical Characteristic Curves



www.vcclite.com

Application Notes

1. Storage

The Storage Temperature and RH are: $5^{\circ}C \sim 30^{\circ}C$, RH 60% or less.

We suggest our customers use our products within a year.

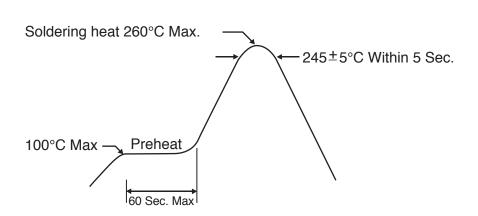
If the moisture absorbent material (silica gel) has faded away or the LEDs exceeded the storage time, bake treat more than 24 hours at $60^{\circ}C \pm 5^{\circ}C$.

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

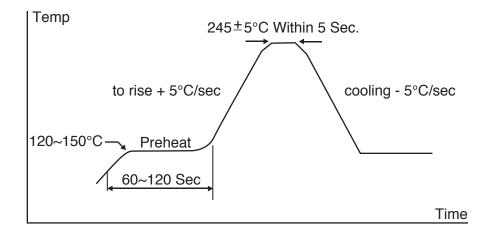


Soldering heat (DIP)

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



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard LEDs - Through Hole category:

Click to view products by Visual Communications Company manufacturer:

Other Similar products are found below :

LTL-10254W LTL-1214A LTL-3251A LTL-4262N LTL-433P LTL-5234 LTL87HTBK LTW-87HD4B HLMP-EL30-PS0DD 1L0532V23G0TD001 NSPW500CS NTE30036 NTE30044 NTE30059 NTE3020 LD CQDP-1U3U-W5-1-K LO566UHR3-70G-A3 LP379PPG1C0G0300001 SLX-LX3044GD SLX-LX3044ID SLX-LX3044YD 1.90690.3330000 SSS-LX4673ID-410B 1L0532Y24I0TD001 264-7SYGD/S530-E2 HLMP1385 LTL-10224W LTL-1224A LTL-1234A LTL-2251AT LTL-307YE-012 LTL-403HR LTL-4222 LU7-E-B 4380H1 TLHY44K1L2 HLMP-3962-F0002 HLMP-GG15-R0000 323-2SURD/S530-A3 L53SRC/E-Z L-7679C1ZGC 4302T1-5V 4306D23 4363D1/5 WP1503SRC/J4 WP153GDT WP153YDT WP1543SGC WP1543SURC WP53MGD