T-1 3/4 (5mm) SOLID STATE LAMP

Part Number: WP7113ZGCK Green

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- Low power consumption.
- Popular T-1 3/4 diameter package.
- General purpose leads.
- Reliable and rugged.
- Long life solid state reliability.
- Available on tape and reel.
- RoHS compliant.

Description

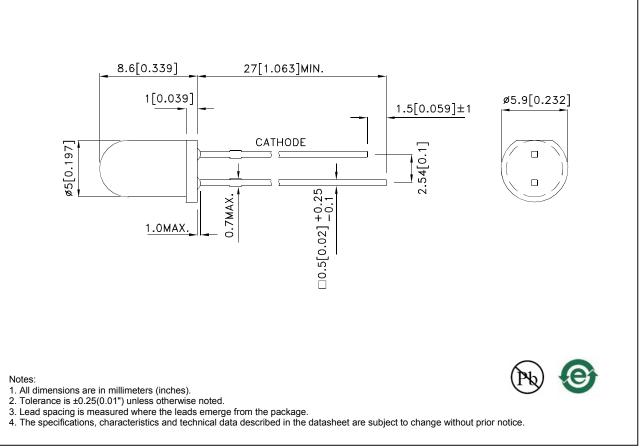
The Green source color devices are made with InGaN on Sapphire Light Emitting Diode.

Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



SPEC NO: DSAM6349 APPROVED: WYNEC REV NO: V.2B CHECKED: Allen Liu DATE: MAR/26/2013 DRAWN: F.Cui PAGE: 1 OF 6 ERP: 1101032129

Salaatian Cuida

| Part No. | Part No. Dice Lens Type | Lens Type | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
|------------|-------------------------|-------------|------------------------|-------|----------------------|
| | | | Min. | Тур. | 201/2 |
| WP7113ZGCK | Green (InGaN) | Water Clear | 7000 | 12000 | 20° |

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Luminous intensity/ luminous Flux: +/-15%.
Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|--------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Green | 515 | | nm | IF=20mA |
| λD [1] | Dominant Wavelength | Green | 525 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Green | 35 | | nm | IF=20mA |
| С | Capacitance | Green | 45 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Green | 3.3 | 4.1 | V | I⊧=20mA |
| lr | Reverse Current | Green | | 50 | uA | VR = 5V |

Notes:

Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

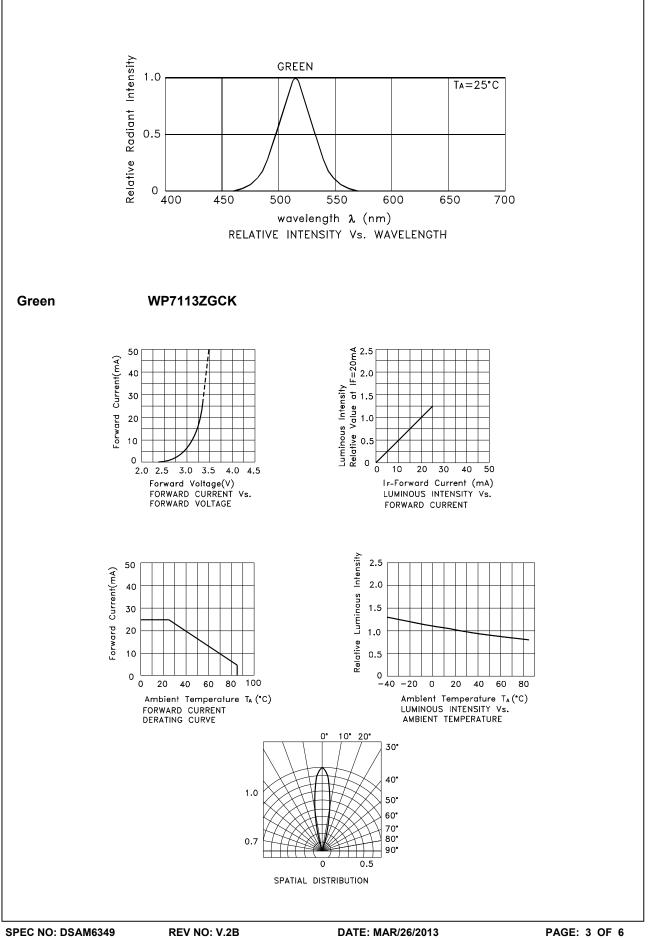
Absolute Maximum Ratings at TA=25°C

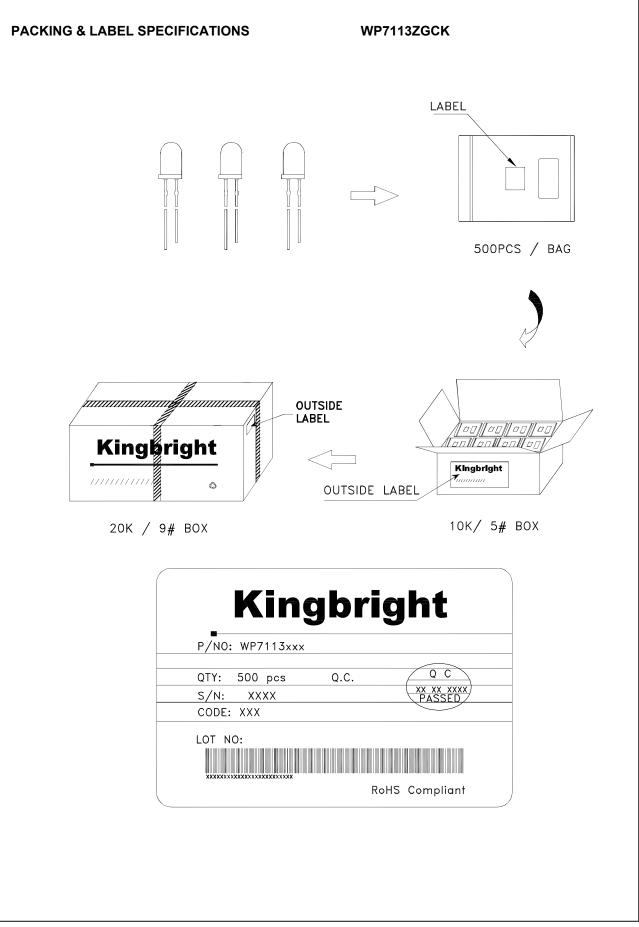
| Green | Units | |
|---------------------|--|--|
| 102.5 | mW | |
| 25 | mA | |
| 150 | mA | |
| 5 | V | |
| -40°C To +85°C | | |
| 260°C For 3 Seconds | | |
| 260°C For 5 Seconds | | |
| | 102.5 25 150 5 -40°C To +85°C 260°C For 3 Seconds | |

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

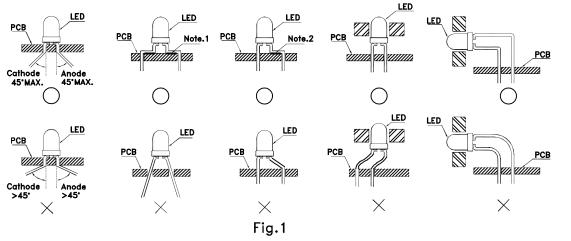
2. 2mm below package base.
3. 5mm below package base.





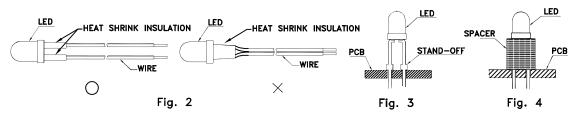
PRECAUTIONS

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures. (Fig. 1)

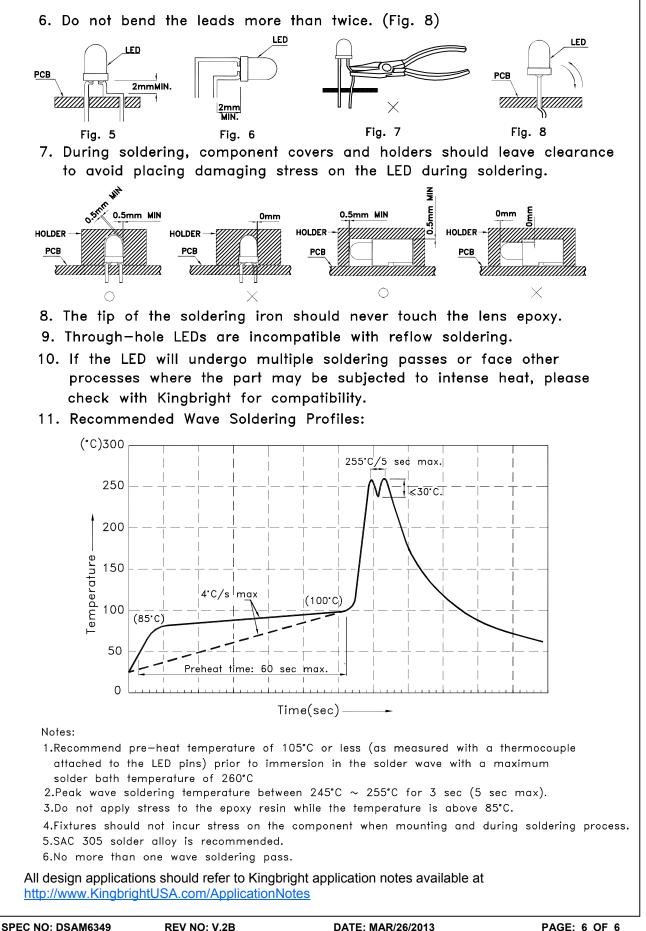


" \bigcirc " Correct mounting method "imes" Incorrect mounting method

- 2. When soldering wire to the LED, use individual heat-shrink tubing to insulate the exposed leads to prevent accidental contact short-circuit. (Fig.2)
- 3. Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



- 4. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)
- 5. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB. (Fig. 7)



REV NO: V.2B CHECKED: Allen Liu DATE: MAR/26/2013 DRAWN: F.Cui

Mouser Electronics

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