

3.0mmx1.0 mm RIGHT ANGLE SMD **CHIP LED LAMP**

Part Number: APA3010ZGC/G-GX Green



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

Features

- 3.0mmx1.0mm right angle SMT LED, 2.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for back light and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Description

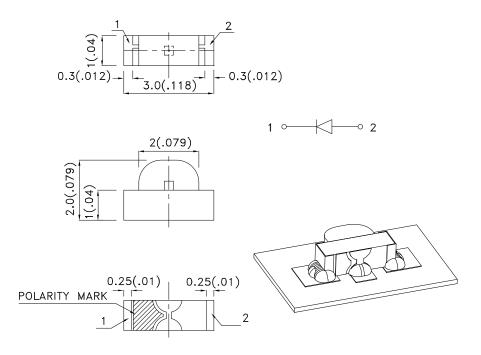
The Green source color devices are made with InGaN Light Emitting Diode.

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



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice. 4.The device has a single mounting surface. The device must be mounted according to the specifications.

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Selection Guide

| Part No. | Dice | ` , | Viewing Angle [1] | | |
|-----------------|---------------|-------------|----------------------|------|-------|
| | | 2. | Min. | Тур. | 201/2 |
| APA3010ZGC/G-GX | Green (InGaN) | Water Clear | 400 | 650 | 120° |

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|--------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Green | 520 | | 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 | 100 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Green | 3.2 | 4 | V | IF=20mA |
| lr | Reverse Current | Green | | 50 | uA | VR=5V |

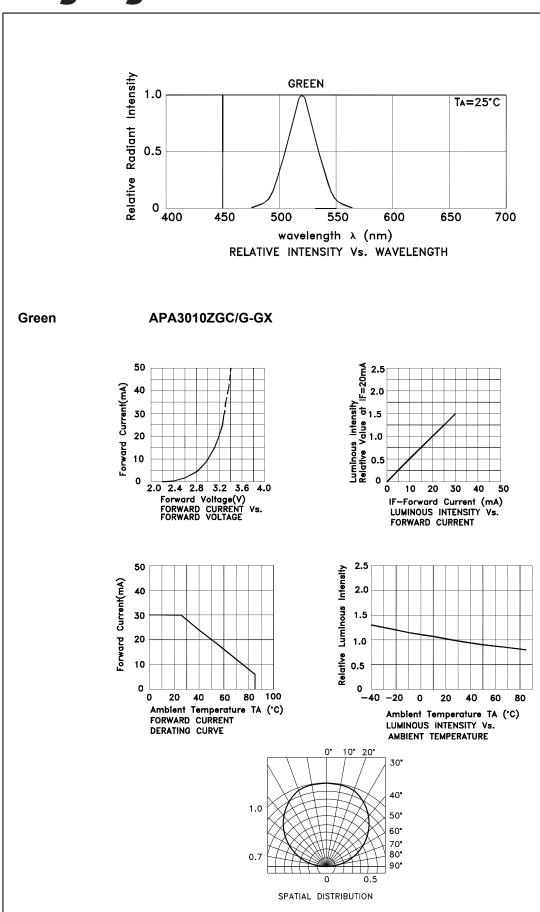
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

| Parameter | Green | | |
|--------------------------|----------------|----|--|
| Power dissipation | 120 | mW | |
| DC Forward Current | 30 | mA | |
| Peak Forward Current [1] | 100 | mA | |
| Reverse Voltage | 5 | V | |
| Operating Temperature | -40°C To +85°C | | |
| Storage Temperature | -40°C To +85°C | | |

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

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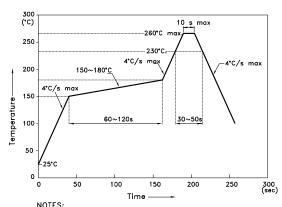
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
 - to high temperature.

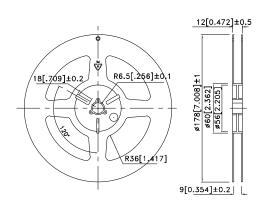
 3.Number of reflow process shall be 2 times or less.

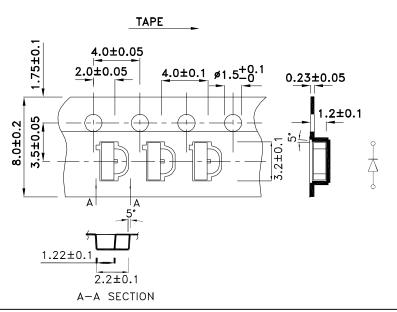
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

0.9

Tape Dimensions (Units : mm)

Reel Dimension



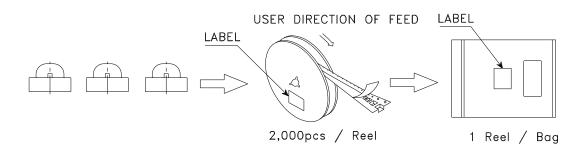


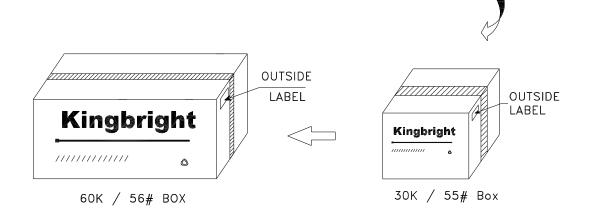
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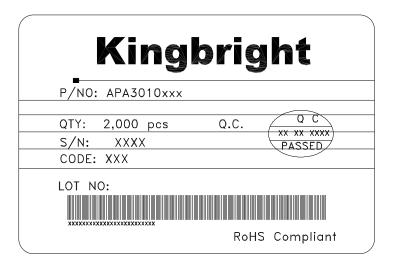
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PACKING & LABEL SPECIFICATIONS

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