1.6x0.8mm SMD CHIP LED LAMP

Part Number: APHK1608ZGC



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

DEVICES

Features

- ●1.6mmx0.8mm SMT LED, 0.7mm thickness.
- •Low power consumption.
- Wide viewing angle.
- •Ideal for backlight and indicator.
- •Various colors and lens types available.
- ●Package: 2000pcs / reel.
- •Moisture sensitivity level : level 4.
- ●RoHS compliant.

Description

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

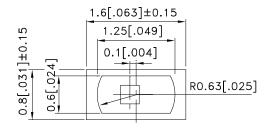
Green

Static electricity and surge damage the LEDS.

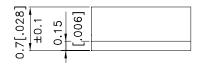
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

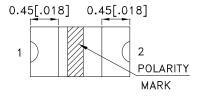
All devices, equipment and machinery must be electrically grounded.

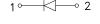
Package Dimensions

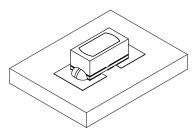












- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1 (0.004")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.4. The device has a single mounting surface. The device must be mounted according to the specifications.





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Selection Guide

| Part No. | Dice | lv (mcd) [2] @ 20mA | | Viewing Angle [1] | |
|-------------|---------------|------------------------|------|----------------------|-------|
| | | | Min. | Тур. | 201/2 |
| APHK1608ZGC | Green (InGaN) | WATER CLEAR | 180 | 500 | 90° |

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline 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 | 515 | | nm | IF=20mA |
| λD [1] | Dominant Wavelength | Green | 525 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Green | 30 | | nm | IF=20mA |
| С | Capacitance | Green | 45 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Green | 3.3 | 4.1 | V | IF=20mA |
| lR | Reverse Current | Green | | 10 | uA | V _R =5V |

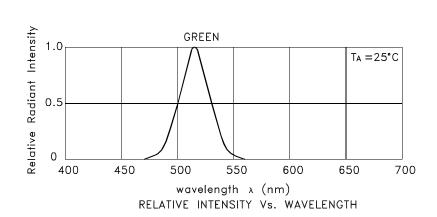
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

| Parameter | Green | Units | |
|--------------------------|----------------|-------|--|
| rarameter | Green | Units | |
| Power dissipation | 102.5 | mW | |
| DC Forward Current | 25 | mA | |
| Peak Forward Current [1] | 150 | mA | |
| Reverse Voltage | 5 | V | |
| Operating Temperature | -40°C To +85°C | | |
| Storage Temperature | -40°C To +85°C | | |

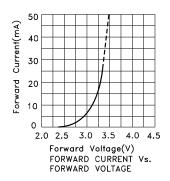
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

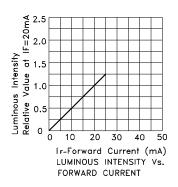
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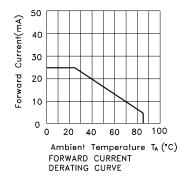


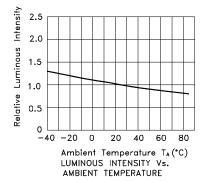
Green

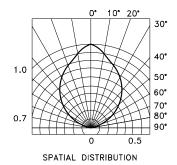
APHK1608ZGC











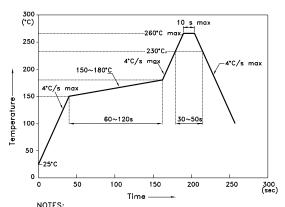
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



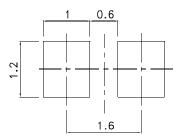
- NOTES:

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

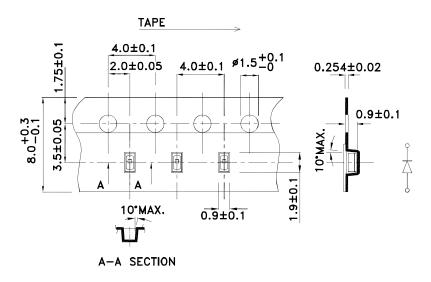
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

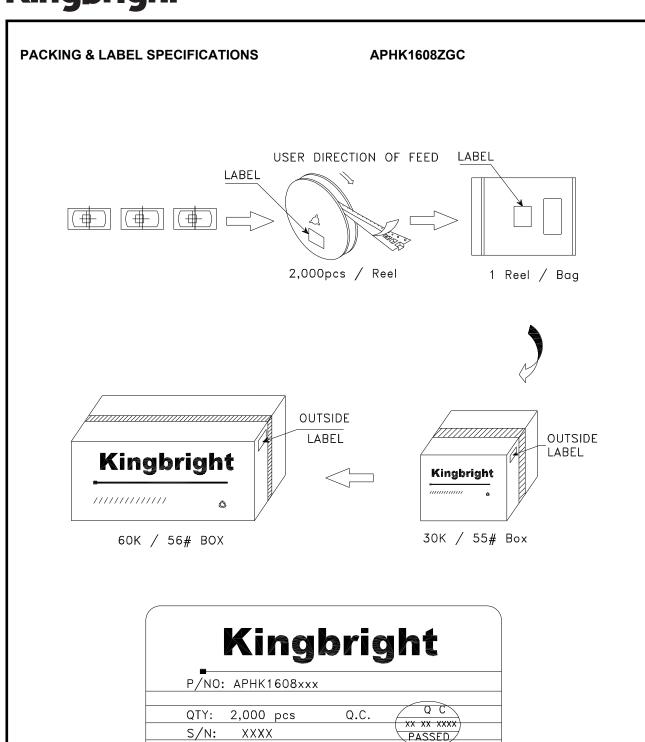
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)



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CODE: XXX

LOT NO:

DATE: MAR/26/2009 DRAWN: X.J.Guo

RoHS Compliant

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