

1.6X0.8mm SMD CHIP LED LAMP

Part Number: KP-1608CGCK

Green

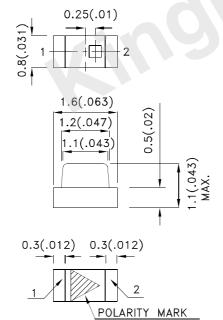
Features

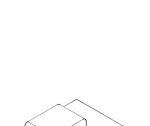
- 1.6mmX0.8mm SMT LED, 1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

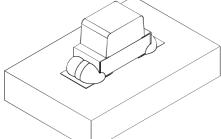
Description

The Green source color devices are made with AlGalnP on GaAs substrate Light Emitting Diode.

Package Dimensions







- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.004") 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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REV NO: V.16B CHECKED: Allen Liu

DATE: MAY/17/2012 DRAWN: C.H.Han

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Selection Guide

| Part No. | Dice | lv (mcd) [2] Dice Lens Type @ 20mA | | , | Viewing Angle [1] |
|-------------|-----------------|------------------------------------|------|------|----------------------|
| | | - | Min. | Тур. | 201/2 |
| KP-1608CGCK | Green (AlGalnP) | Water Clear | 20 | 50 | 120° |

Notes:

- 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%.
- 3. 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 | 574 | 10 | nm | IF=20mA |
| λD [1] | Dominant Wavelength | Green | 570 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Green | 20 | | nm | IF=20mA |
| С | Capacitance | Green | 15 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Green | 2.1 | 2.5 | V | I=20mA |
| lR | Reverse Current | Green | | 10 | uA | V _R =5V |

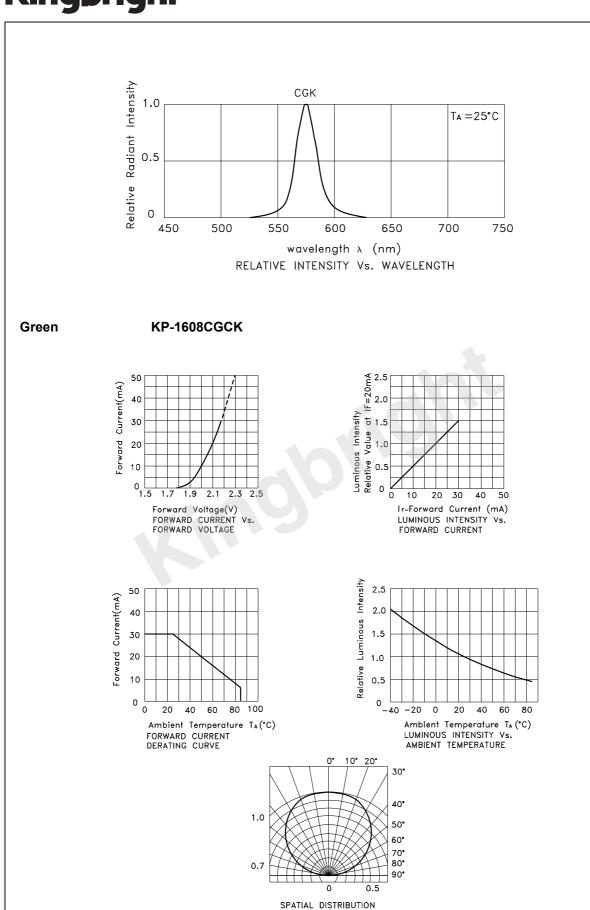
- Notes:
 1.Wavelength: +/-1nm.
 2. Forward Voltage: +/-0.1V.
 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

| Absolute maximum Natings at 1A 25 C | | | | | |
|-------------------------------------|----------------|----------------|--|--|--|
| Parameter | Green | | | | |
| Power dissipation | 75 | mW | | | |
| DC Forward Current | 30 | mA | | | |
| Peak Forward Current [1] | 150 | mA | | | |
| Reverse Voltage | 5 | V | | | |
| Operating Temperature | -40°C To +85°C | -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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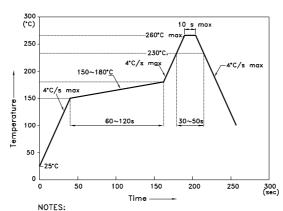
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

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.

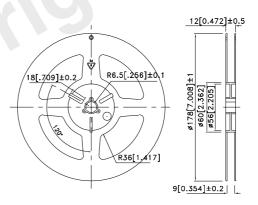
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

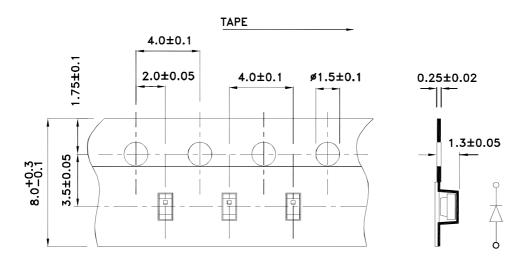
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

∞ 0.8 0.85 0.8

Reel Dimension



Tape Dimensions (Units: mm)

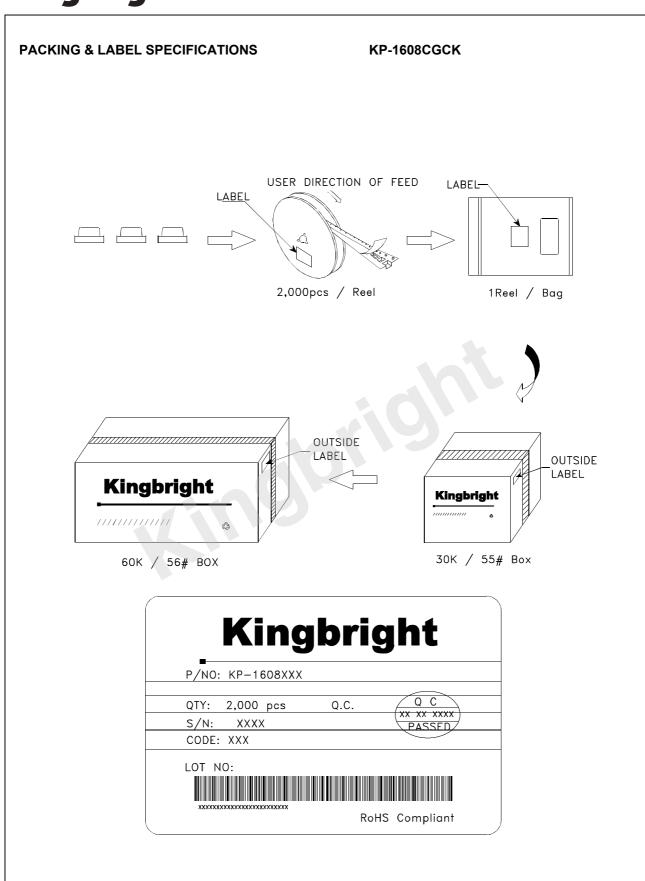


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