#### 3.2mmx1.6mm SMD CHIP LED LAMP

Part Number: KPT-3216CGCK Gr

Green

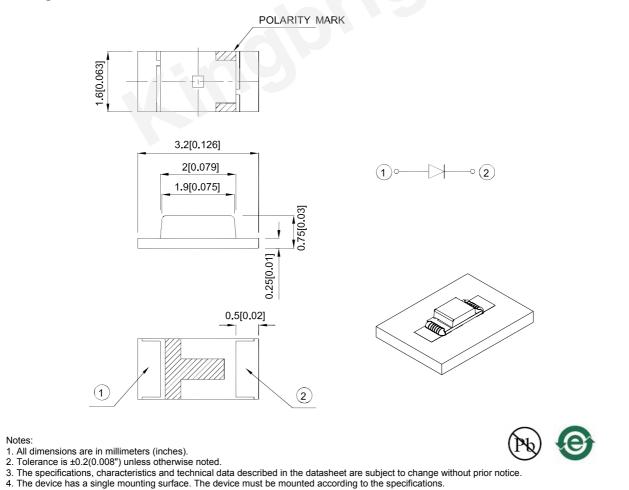
#### Features

- 3.2mmx1.6mm SMD LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

#### Description

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

#### Package Dimensions



SPEC NO: DSAD0222 APPROVED: Wynec REV NO: V.15B CHECKED: Allen Liu DATE: JAN/11/2016 DRAWN: L.Q.Xie PAGE: 1 OF 5 ERP: 1203001909

#### **Selection Guide** Viewing lv (mcd) [2] @ 20mA Angle [1] Part No. **Emitting Color (Material)** Lens Type Min. 201/2 Тур. KPT-3216CGCK Green (AlGaInP) Water Clear 20 50 120°

Notes:

1.  $\theta$ 1/2 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 CIE127-2007 standards.

#### Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter                | Emitting Color | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|----------------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | Green          | 574  |      | nm    | I⊧=20mA         |
| λD [1] | Dominant Wavelength      | Green          | 570  |      | nm    | I⊧=20mA         |
| Δλ1/2  | Spectral Line Half-width | Green          | 20   |      | nm    | I⊧=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    | VR=5V           |

Notes:

1. Wavelength: +/-1nm.

Forward Voltage: +/-0.1V.
Wavelength value is traceable to CIE127-2007 standards.

 Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

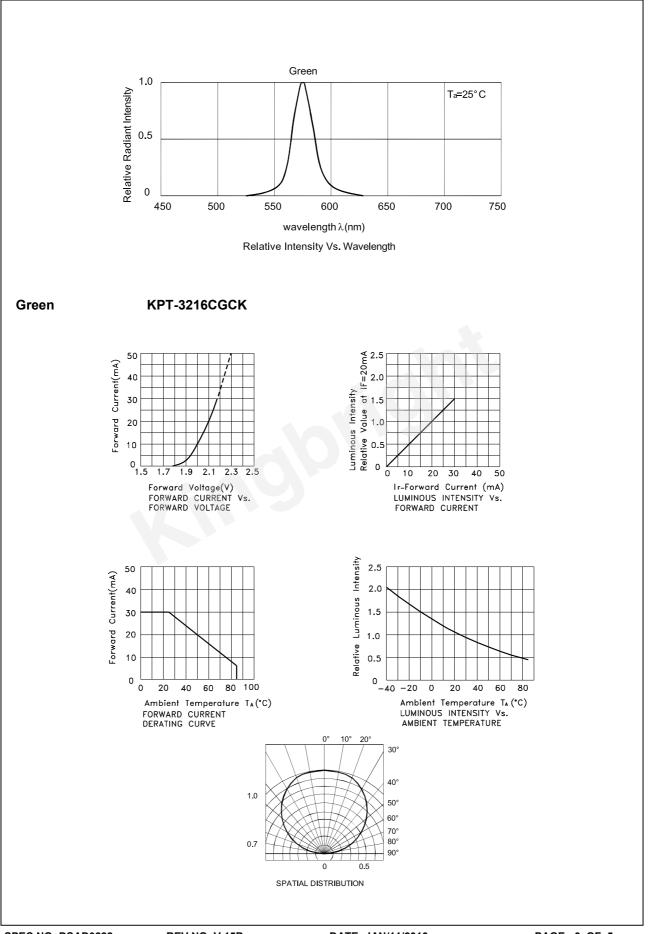
#### Absolute Maximum Ratings at TA=25°C

| Parameter                | Values         |    |  |  |
|--------------------------|----------------|----|--|--|
| Power dissipation        | 75             | mW |  |  |
| DC Forward Current       | 30             | mA |  |  |
| Peak Forward Current [1] | 150            |    |  |  |
| Reverse Voltage          | 5              | V  |  |  |
| Operating Temperature    | -40°C To +85°C |    |  |  |
| Storage Temperature      | -40°C To +85°C |    |  |  |

Notes:

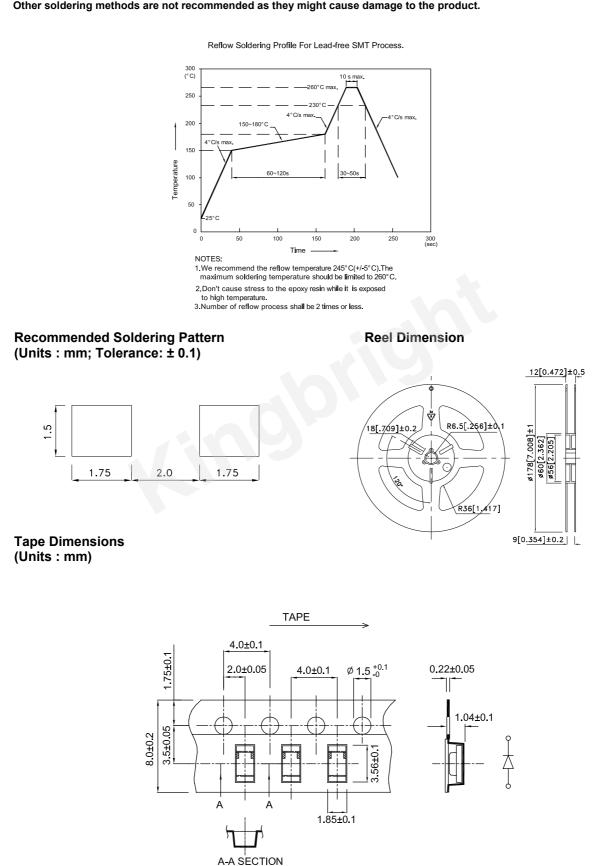
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

 Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

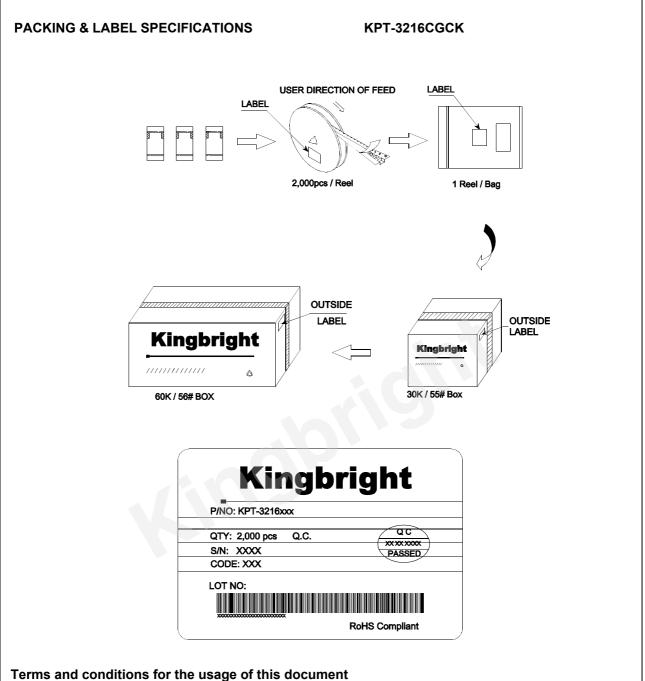


### KPT-3216CGCK

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.



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### 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.

- The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
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