## 1.6X0.8mm SMD CHIP LED LAMP (0.25mm Height)

Part Number: KPG-1608SEKC-T

Super Bright Orange

#### Features

- 1.6mmX0.8mm SMT LED, 0.25mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

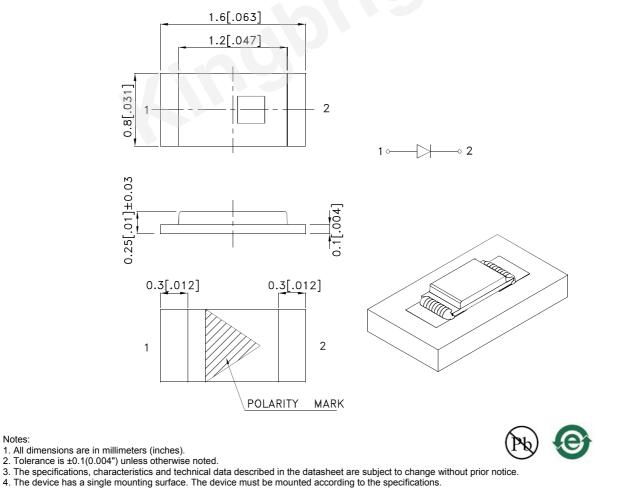
### Description

The Super Bright Orange device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

#### Applications

Mobile phone Keypad indicator and backlight.
Flat backlight for LCD, switch and symbol.
Toys.

#### **Package Dimensions**



SPEC NO: DSAI2682 APPROVED: WYNEC REV NO: V.4A CHECKED: Allen Liu DATE: DEC/17/2011 DRAWN: D.M.Su PAGE: 1 OF 5 ERP: 1203007887

### Solaction Guida

| Part No.       | Dice                          | Lens Type   | lv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle [1] |
|----------------|-------------------------------|-------------|------------------------|------|----------------------|
|                |                               |             | Min.                   | Тур. | 201/2                |
| KPG-1608SEKC-T | Super Bright Orange (AlGaInP) | Water Clear | 120                    | 300  | 120°                 |
| KFG-10003EKC-1 |                               |             | *55                    | *100 |                      |

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%.
\* 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          | Super Bright Orange | 610  |      | nm    | I⊧=20mA         |
| λD [1] | Dominant Wavelength      | Super Bright Orange | 601  |      | nm    | I⊧=20mA         |
| Δλ1/2  | Spectral Line Half-width | Super Bright Orange | 17   |      | nm    | I⊧=20mA         |
| С      | Capacitance              | Super Bright Orange | 15   |      | pF    | VF=0V;f=1MHz    |
| Vf [2] | Forward Voltage          | Super Bright Orange | 2.05 | 2.5  | V     | I⊧=20mA         |
| lr     | Reverse Current          | Super Bright Orange |      | 10   | uA    | VR=5V           |

Notes:

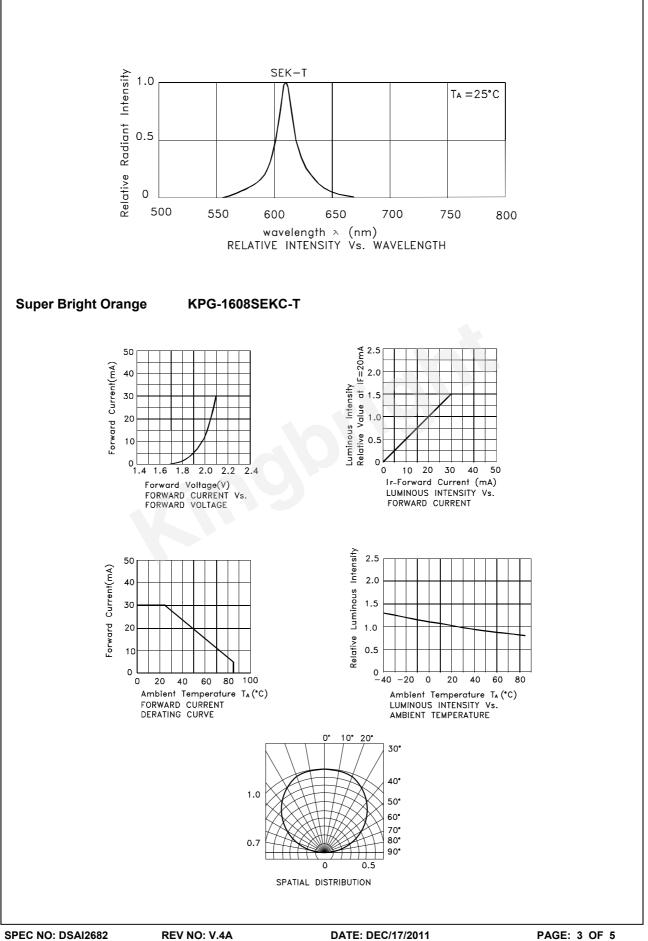
Wavelength: +/-1nm.
Forward Voltage: +/-0.1V
Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

| Parameter                | Super Bright Orange | Units |  |  |
|--------------------------|---------------------|-------|--|--|
| 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      |       |  |  |
| Storage Temperature      | -40°C To +85°C      |       |  |  |

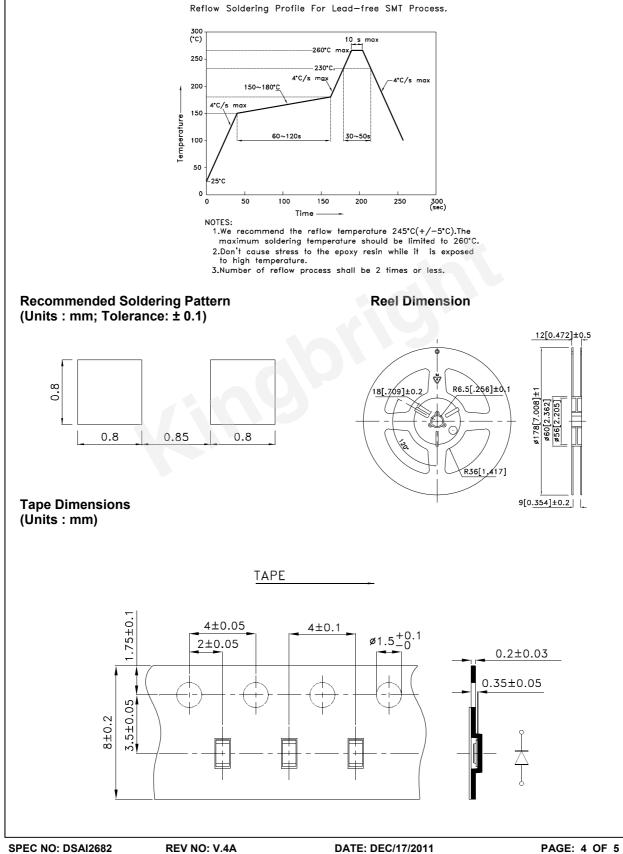
Note:

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



### KPG-1608SEKC-T

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.



APPROVED: WYNEC

CHECKED: Allen Liu

DRAWN: D.M.Su

PAGE: 4 OF 5 ERP: 1203007887

