

# 0.65X0.35mm SMD CHIP LED LAMP (0.2mm Height)

Part Number: KPG-0603SEC-TT

Super Bright Orange

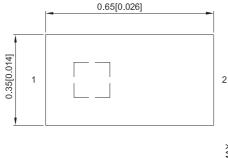
#### **Features**

- 0.65mmX0.35mm SMT LED,0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Package:4000pcs/reel.
- Moisture sensitivity level : level 2.
- RoHS compliant.

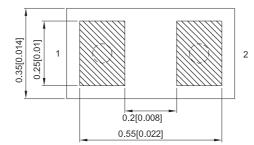
### **Description**

The Super Bright Orange source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

### **Package Dimensions**

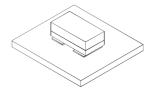












- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.004") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

  4. The device has a single mounting surface. The device must be mounted according to the specifications.

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### **Selection Guide**

Part No.	t No. Dice Lens Type	Lens Type	lv (mcd) [2] @ 10mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPG-0603SEC-TT	Super Bright Orange (AlGaInP)	Mater Clear	60	150	135°
		Water Clear	*20	*50	

#### 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	611		nm	IF=10mA
λD [1]	Dominant Wavelength	Super Bright Orange	605		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	17		nm	IF=10mA
VF [2]	Forward Voltage	Super Bright Orange	2	2.4	V	IF=10mA
lr	Reverse Current	Super Bright Orange		10	uA	V <sub>R</sub> =5V

- 1.Wavelength: +/-1nm.
  2. Forward Voltage: +/-0.1V.
  3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
  4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

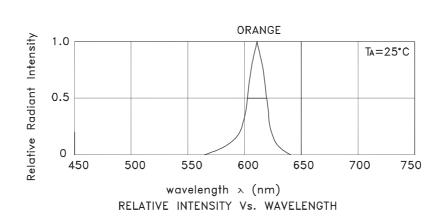
### Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Orange	Units	
Power dissipation	48	mW	
DC Forward Current	20	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:

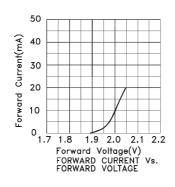
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

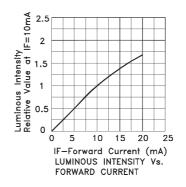
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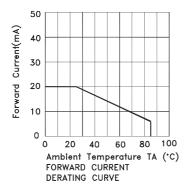


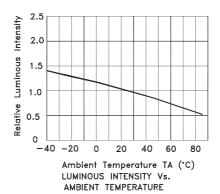
# **Super Bright Orange**

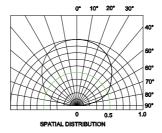
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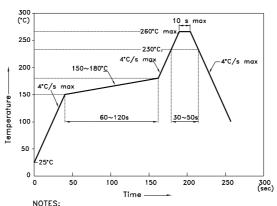


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### KPG-0603SEC-TT

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.



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.

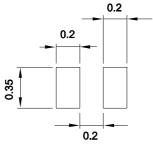
3.Number of reflow process shall be 2 times or less.

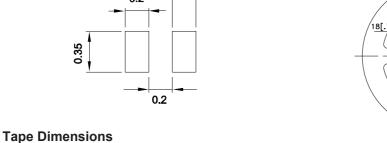
# **Recommended Soldering Pattern**

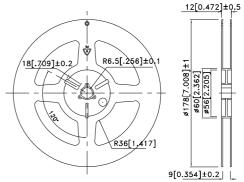
(Units: mm; Tolerance: ± 0.1)

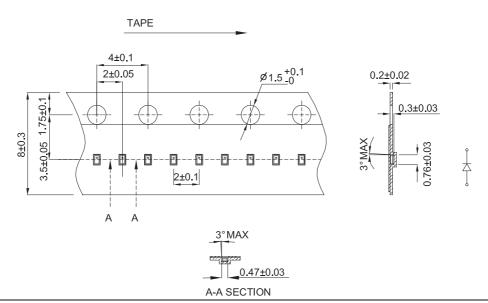
(Units: mm)

# **Reel Dimension**

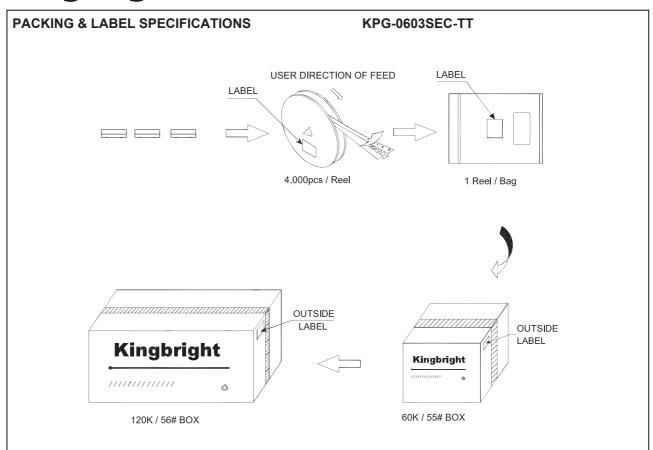








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