

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

Part Number: APG1608SYKC/T

Super Bright Yellow

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.

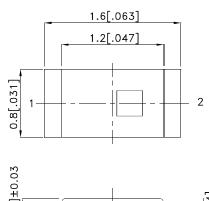
Description

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

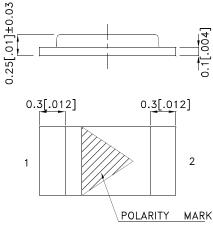
Applications

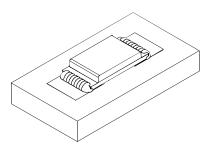
- 1. Mobile phone Keypad indicator and backlight.
- 2.Flat backlight for LCD, switch and symbol.
- 3.Toys.

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.3 CHECKED: Allen Liu **DATE: SEP/28/2010** DRAWN: J.Yu

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,,	Min.	Тур.	201/2
APG1608SYKC/T	Super Bright Yellow (AlGaInP)	Water Clear	70	120	120°

- 1. θ 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%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	15		nm	IF=20mA
С	Capacitance	Super Bright Yellow	25		pF	V _F =0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	2.05	2.5	V	IF=20mA
lR	Reverse Current	Super Bright Yellow		10	uA	VR=5V

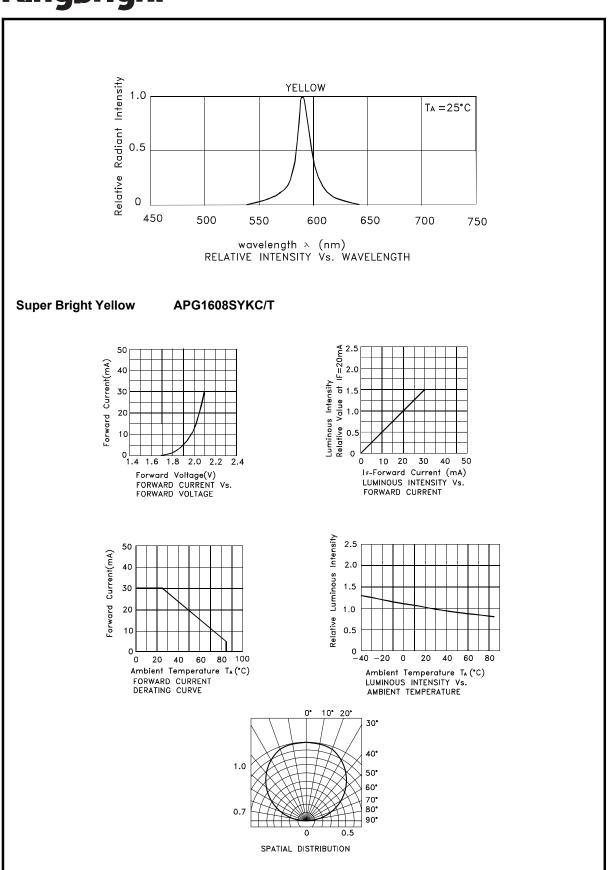
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Yellow	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.

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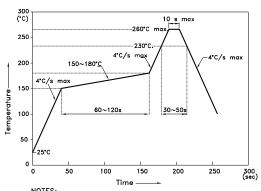
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APG1608SYKC/T

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.

Reflow Soldering Profile For Lead-free SMT Process.



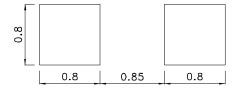
NOTES:

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

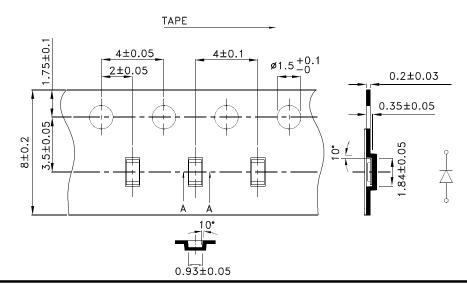
2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

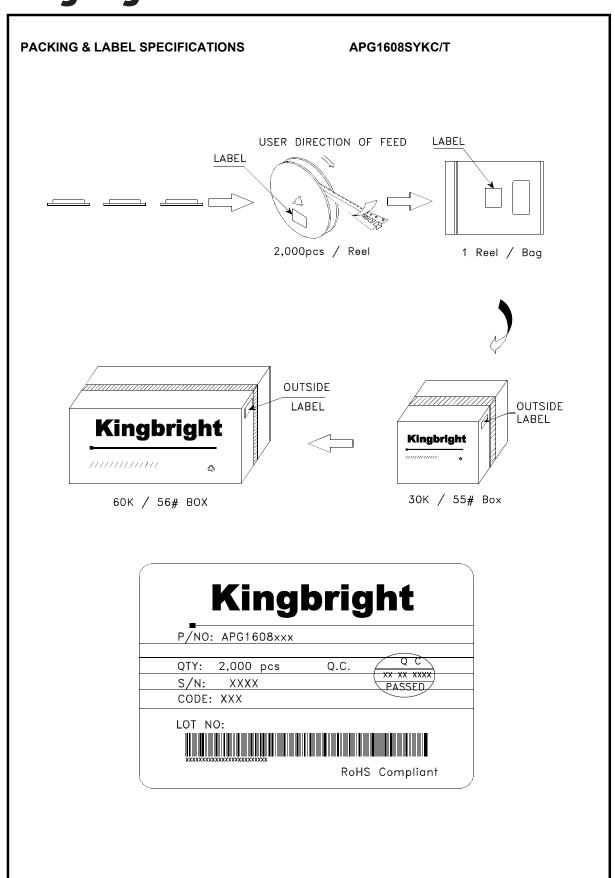
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units : mm)



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