### imall

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### Contact us

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#### 1.0X0.5X0.2mm (0402)SMD CHIP LED LAMP

Part Number: APG1005SEC-T

Super Bright Orange

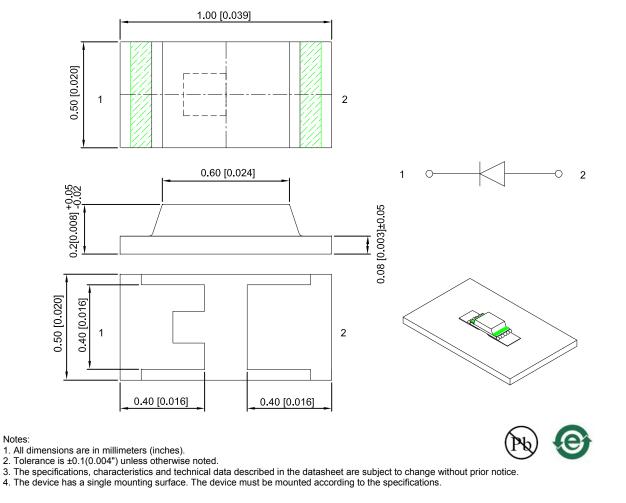
#### Features

- 1.0mmX0.5mm SMD LED, 0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 4000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

#### Description

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

#### Package Dimensions



SPEC NO: DSAM9855 APPROVED: Wynec REV NO: V.5A CHECKED: Allen Liu DATE: JUL/01/2016 DRAWN: L.T.Zhang PAGE: 1 OF 5 ERP: 1203013779

#### Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APG1005SEC-T	Super Bright Orange (AlGaInP)	Water Clear	55	153	120°
		Water Clear	*40	*90	

Notes:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Luminous intensity/ luminous Flux: +/-15%.
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	Super Bright Orange	611		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	605		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	17		nm	I⊧=20mA
VF [2]	Forward Voltage	Super Bright Orange	2.05	2.4	V	I⊧=20mA
lr	Reverse Current	Super Bright Orange		10	uA	VR=5V

Notes:

1.Wavelength: +/-1nm.

2.Forward Voltage: +/-0.1V.

3.Wavelength value is traceable to CIE127-2007 standards.

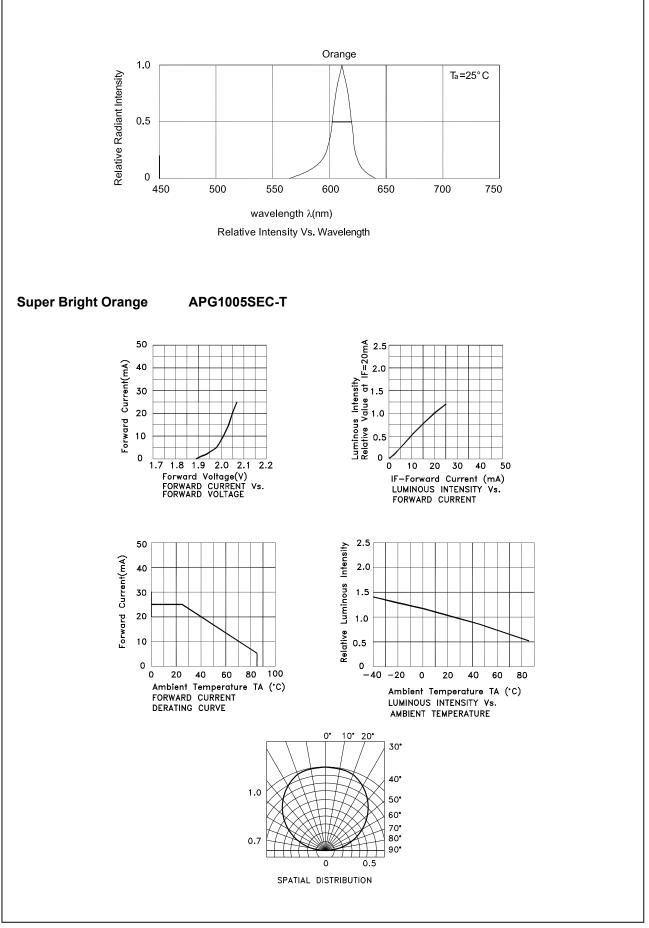
4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

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

Parameter	Values	Units		
Power dissipation	60	mW		
DC Forward Current	25	mA		
Peak Forward Current [1]	120	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

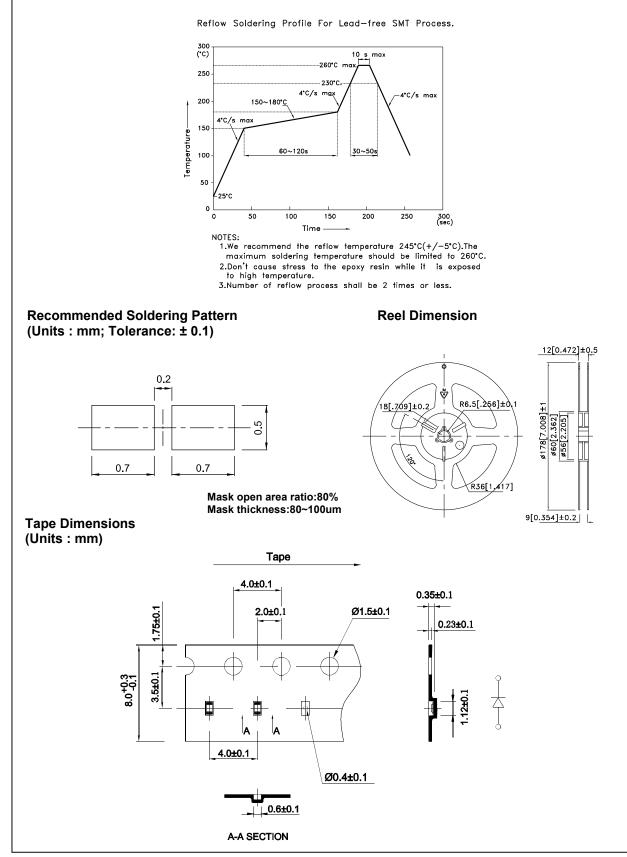
Notes:

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.

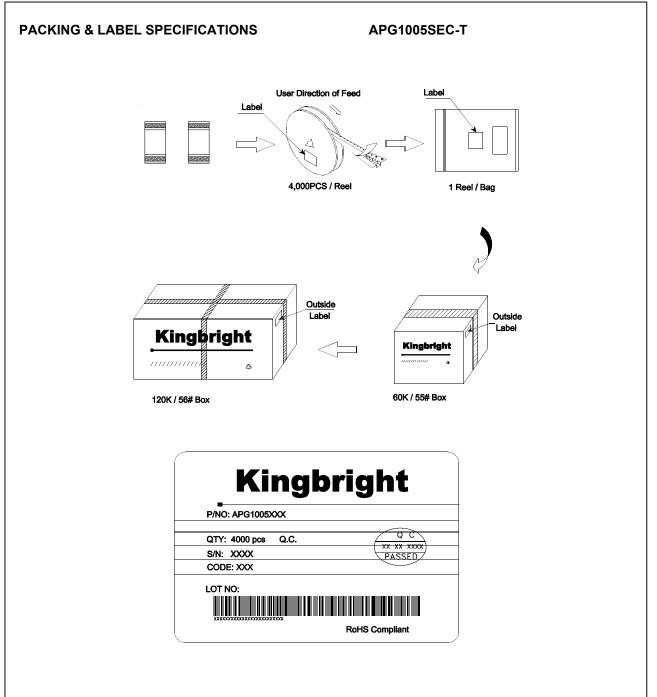


#### APG1005SEC-T

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.



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