

#### 5.0X6.0mm SURFACE MOUNT LED LAMP

PRELIMINARY SPEC

Part Number: AA5060SEC/J

HYPER ORANGE

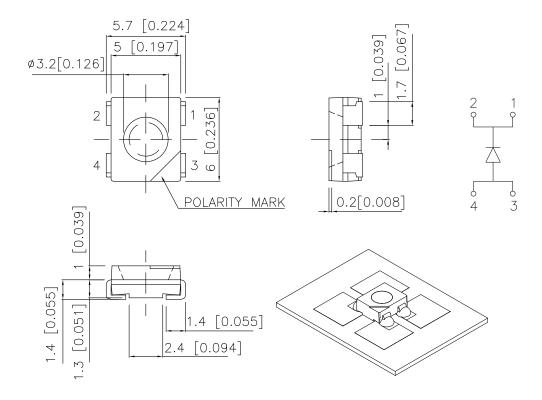
#### **Features**

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE: 500PCS / REEL.
- MOISTURE SENSITIVITY LEVEL: LEVEL 4.
- RoHS COMPLIANT.

#### **Description**

The Super Bright device is based on light emitting diode chip made from AllnGaP.

#### **Package Dimensions**



#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- 3. Specifications are subject to change without 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.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AA5060SEC/J	HYPER ORANGE (AllnGaP)	WATER CLEAR	3300	4500	100°

#### Notes:

- θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
   Luminous Intensity / Luminous Flux: +/-15%.

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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Orange	640		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Orange	630		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Orange	25		nm	IF=20mA
O	Capacitance	Hyper Orange	27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Orange	2.2	2.8	V	IF=20mA
lr	Reverse Current	Hyper Orange		10	uA	VR = 5V

#### Notes:

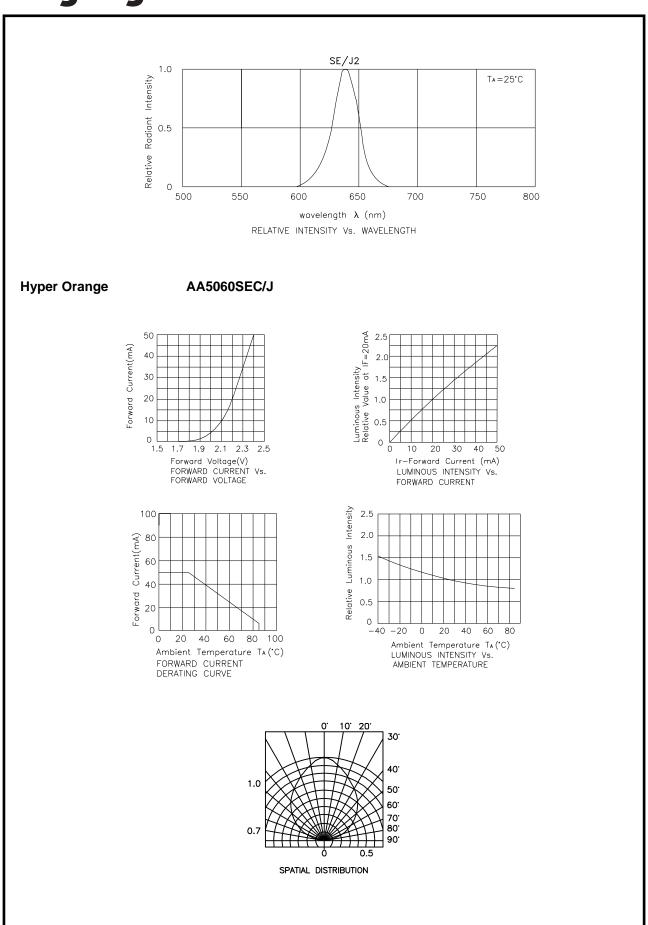
- 1.Wavelength: +/-1nm.
- 2.Forward Voltage: +/-0.1V.

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

Parameter	Hyper Orange	Units	
Power dissipation	140	mW	
DC Forward Current	50	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		

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

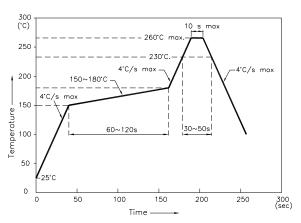
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#### AA5060SEC/J

Reflow Soldering Profile For Lead-free SMT Process.

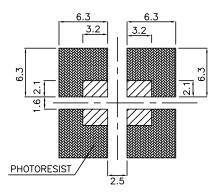


- NOTES:

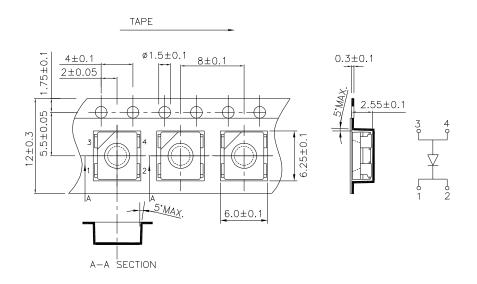
  1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
  - 3. Number of reflow process shall be 2 times or less.

### **Recommended Soldering Pattern**

(Units : mm; Tolerance: ±0.1)



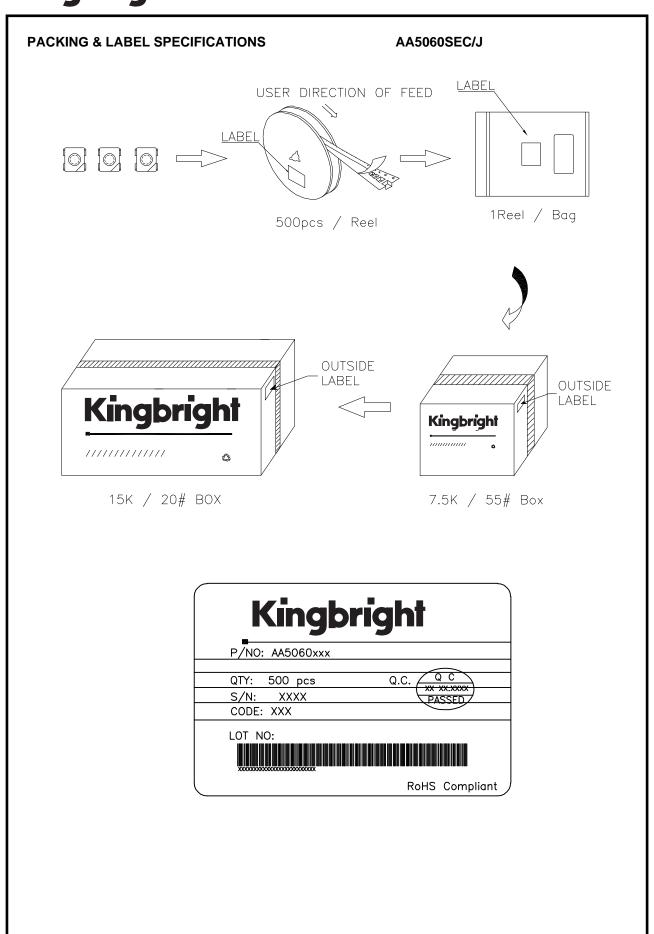
#### **Tape Specifications** (Units: mm)



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