

## 4.0x4.0mm RIGHT ANGLE SURFACE MOUNT **LED LAMP**

Part Number: AA4040NC

Pure Orange

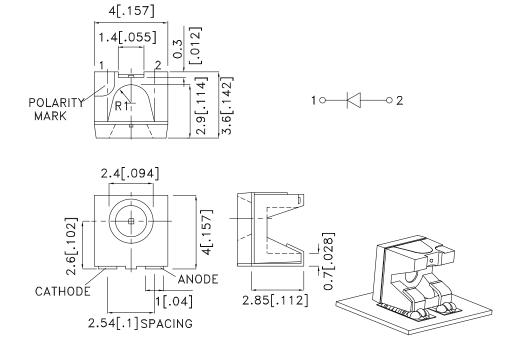
### **Features**

- 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 Pure Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Pure Orange Light Emitting Diode.

## **Package Dimensions**



- 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]	
		2.	Min.	Тур.	201/2
AA4040NC	Pure Orange (GaAsP/GaP)	WATER CLEAR	10	30	90°

### Notes:

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline 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	Pure Orange	607		nm	IF=20mA
λD [1]	Dominant Wavelength	Pure Orange	610		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Pure Orange	35		nm	IF=20mA
С	Capacitance	Pure Orange	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Pure Orange	2.05	2.5	V	IF=20mA
lr	Reverse Current	Pure Orange		10	uA	VR=5V

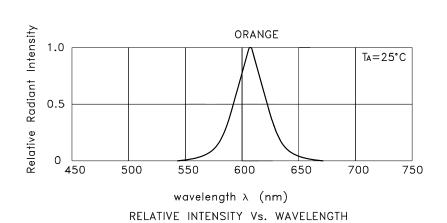
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

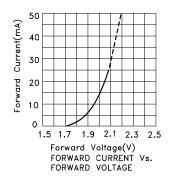
Parameter	Pure Orange	Units	
Power dissipation	62.5	mW	
DC Forward Current	25	mA	
Peak Forward Current [1]	145	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

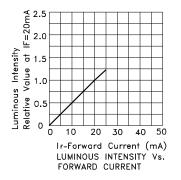
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

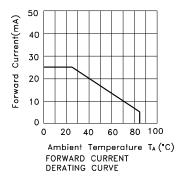
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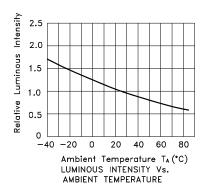


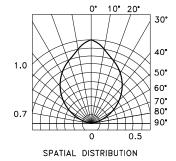
Pure Orange AA4040NC











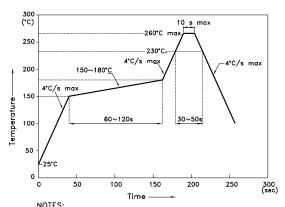
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### **AA4040NC**

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.



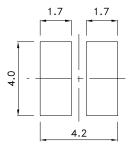
- NOTES:

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

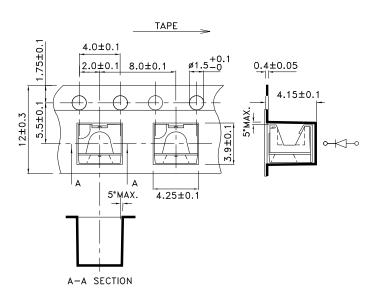
  2.Don't cause stress to the epoxy resin while it is exposed to high temperature. to high temperature.

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

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



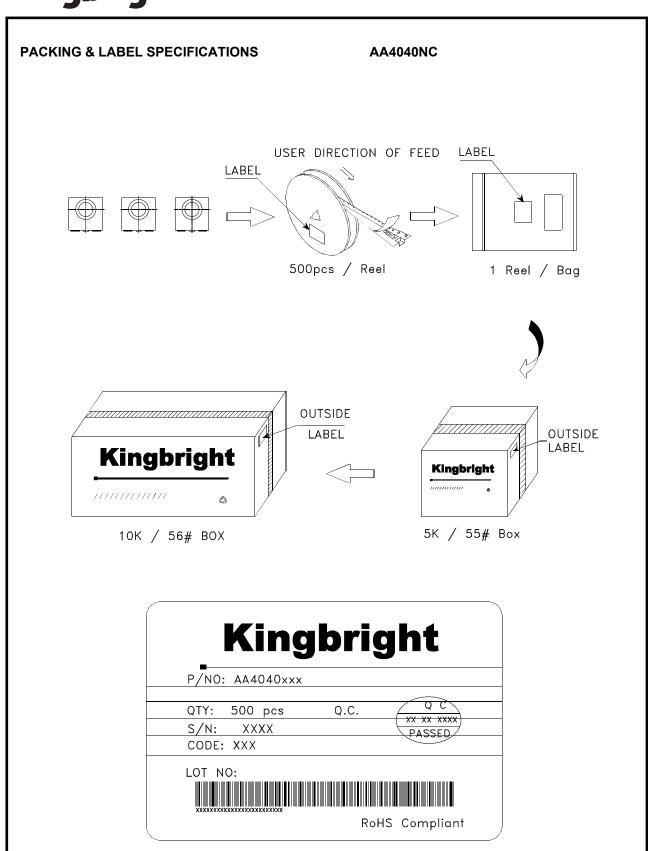
**Tape Dimensions** (Units : mm)



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