

Kingbright

4.0x4.0mm RIGHT ANGLE SURFACE MOUNT LED LAMP

AA4040NC

PURE ORANGE

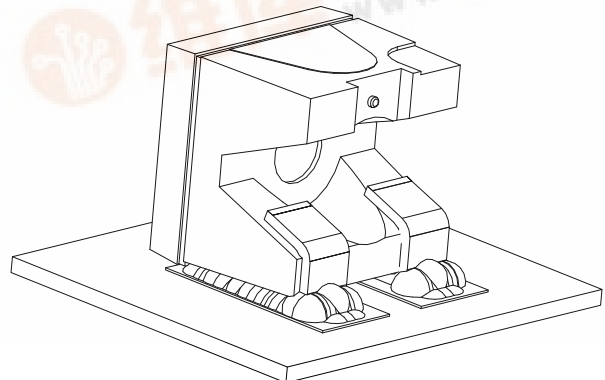
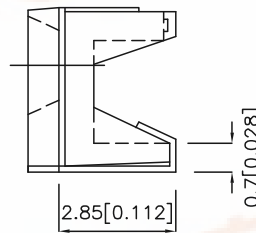
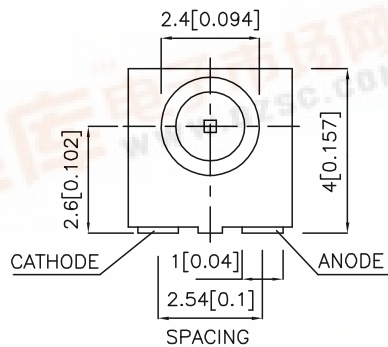
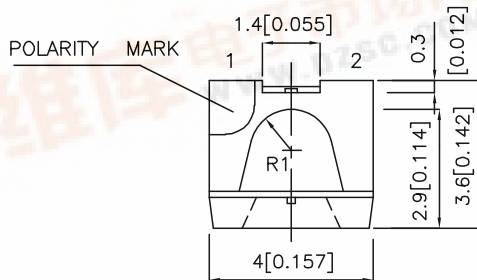
Features

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE : 500PCS / REEL.
- 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



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	θ1/2
AA4040NC	PURE ORANGE (GaAsP/GaP)	WATER CLEAR	10	30	90°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Pure Orange	607		nm	IF=20mA
λ_D	Dominant Wavelength	Pure Orange	610		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Pure Orange	35		nm	IF=20mA
C	Capacitance	Pure Orange	15		pF	VF=0V;f=1MHz
VF	Forward Voltage	Pure Orange	2.05	2.5	V	IF=20mA
IR	Reverse Current	Pure Orange		10	uA	VR = 5V

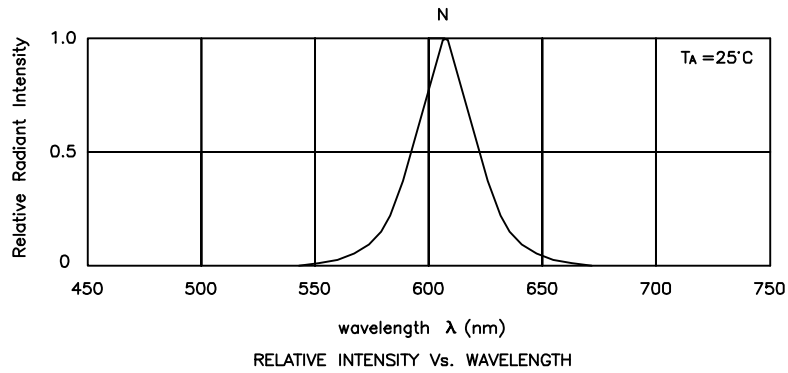
Absolute Maximum Ratings at TA=25°C

Parameter	Pure Orange	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	145	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

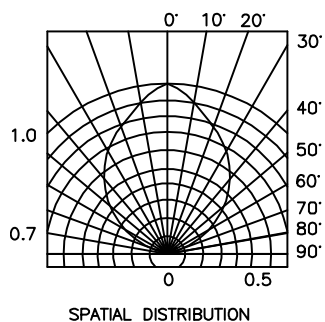
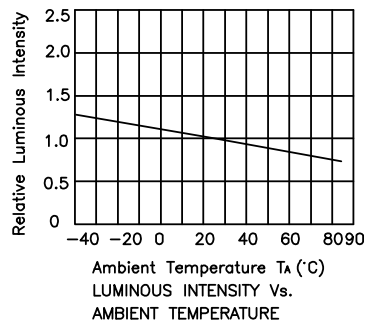
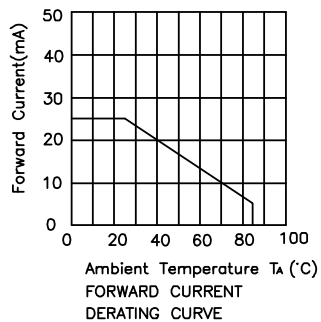
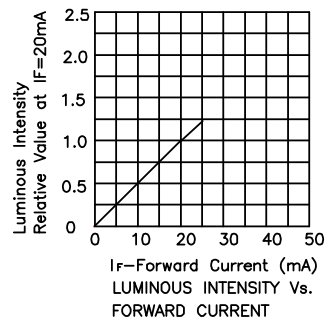
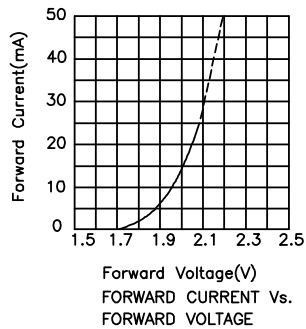
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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Pure Orange

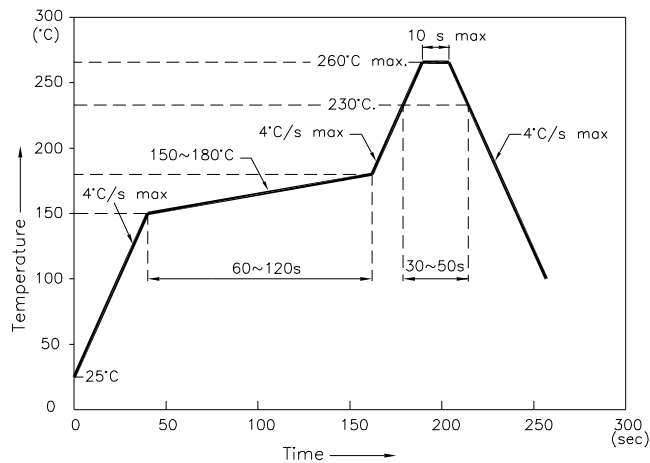
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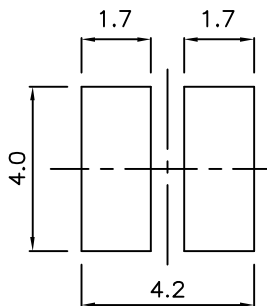
Reflow Soldering Profile For Lead-free SMT Process.



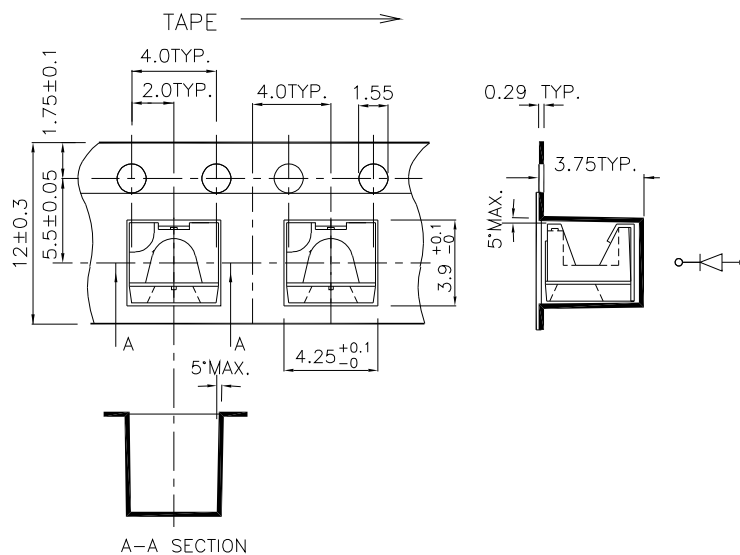
NOTES:

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)



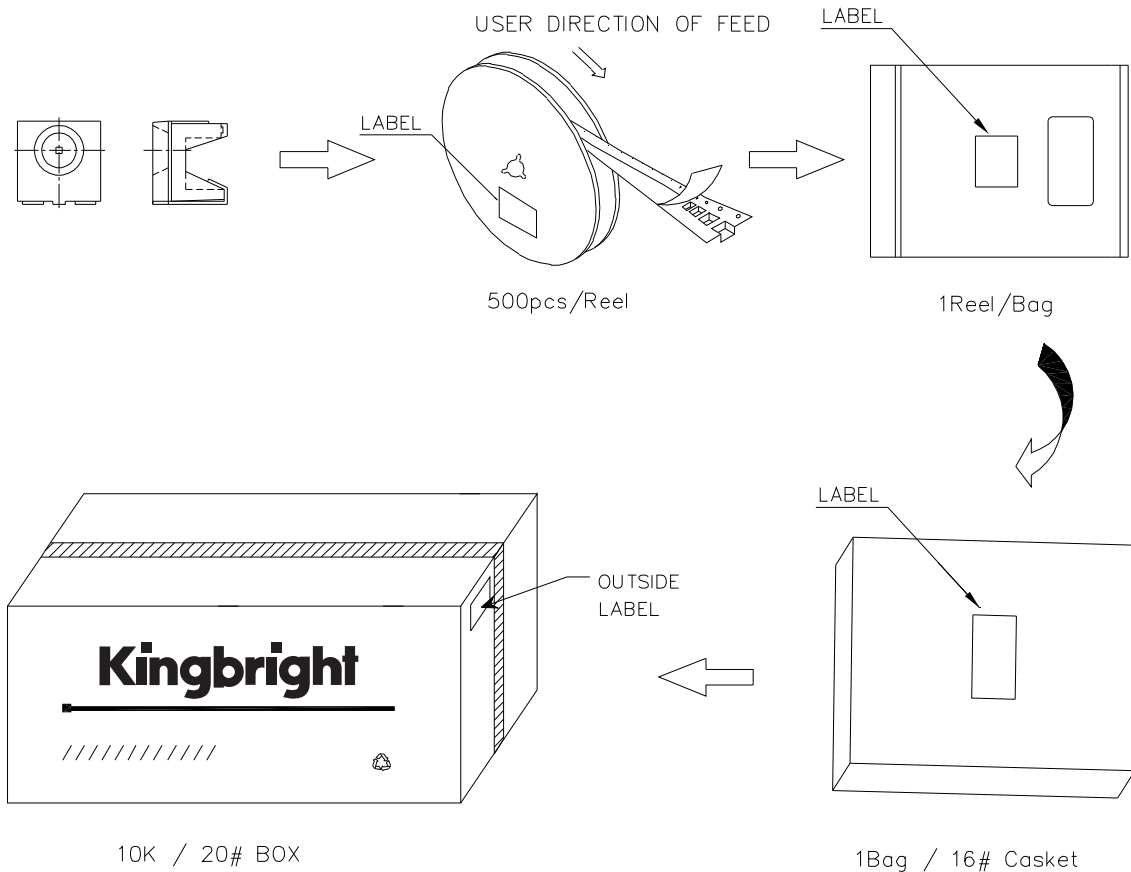
Tape Specifications (Units : mm)




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PACKING & LABEL SPECIFICATIONS

AA4040NC



Kingbright	
P/N0: AA4040XXX	Q C
QTY: 500 pcs	Q.C. xx xx. xxxx
S/N: XXXX	PASSED Date
CODE: XXX	
LOT NO:	
 <small>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</small>	
RoHS Compliant	

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.