4.0x4.0mm RIGHT ANGLE SURFACE MOUNT LED LAMP

Part Number: AA4040NS

Pure Orange

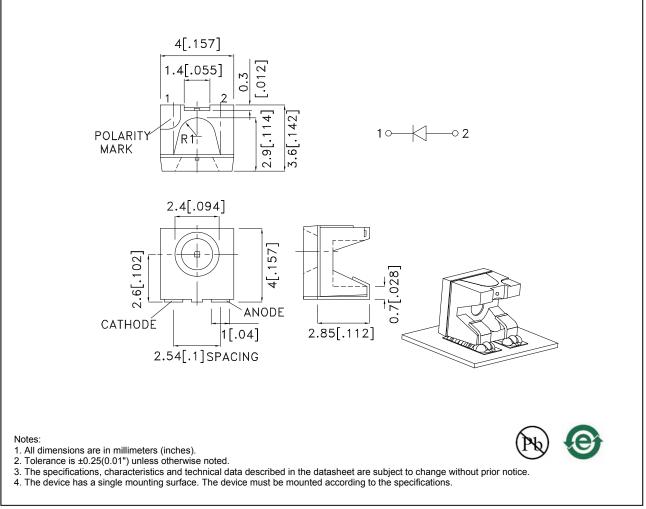
Features

- 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 3.
- 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

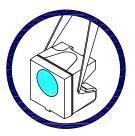


SPEC NO: DSAL0973 APPROVED: WYNEC REV NO: V.2 CHECKED: Allen Liu DATE: MAR/15/2011 DRAWN: D.M.Su PAGE: 1 OF 6 ERP: 1201007052

Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.



2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.





3. As silicone encapsulation is permeable to gases, some corrosive substances such as H_2S might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AA4040NS	Pure Orange (GaAsP/GaP)	Water Clear	15	30	120°

Notes:

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

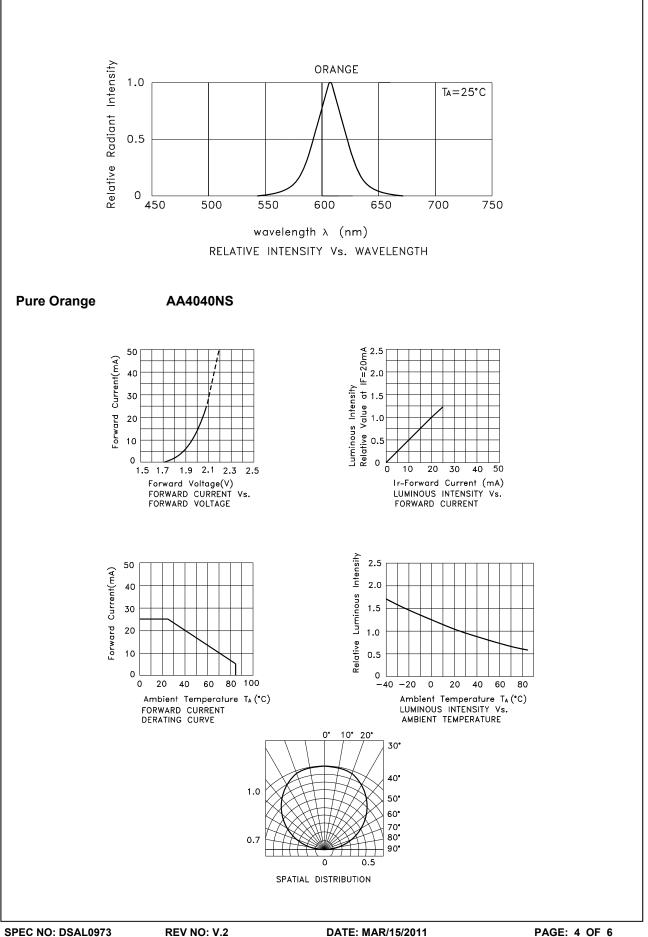
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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		

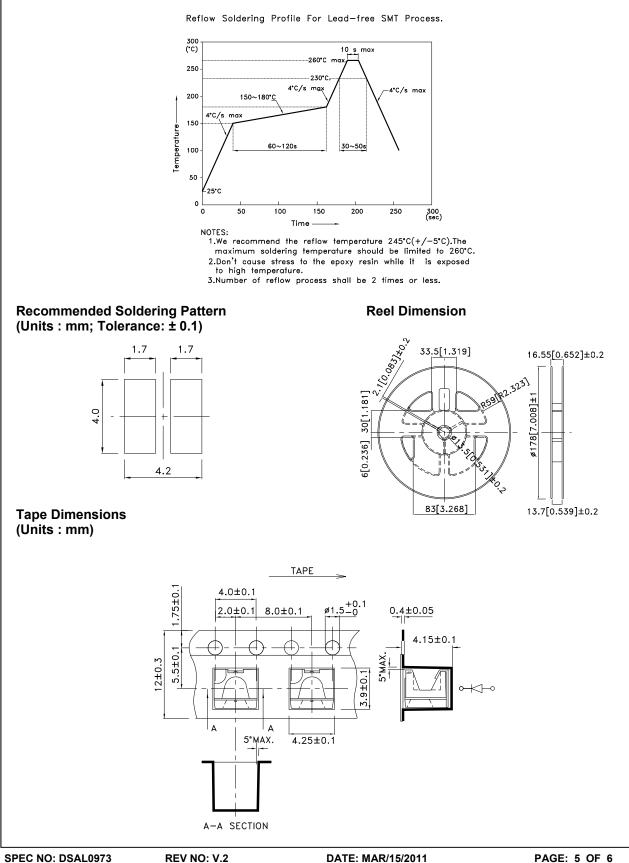
Note:

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



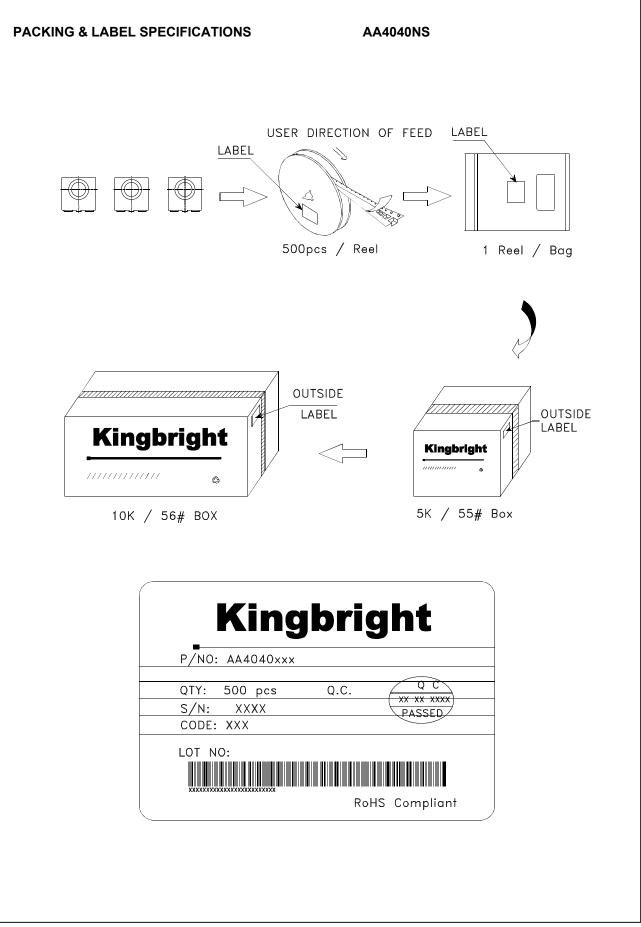
AA4040NS

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.



CHECKED: Allen Liu

DATE: MAR/15/2011 DRAWN: D.M.Su



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