### 1.6x0.8x0.5mm BI-COLOR SURFACE MOUNT LED

Part Number: APHB1608SGNC

Super Bright Green Pure Orange

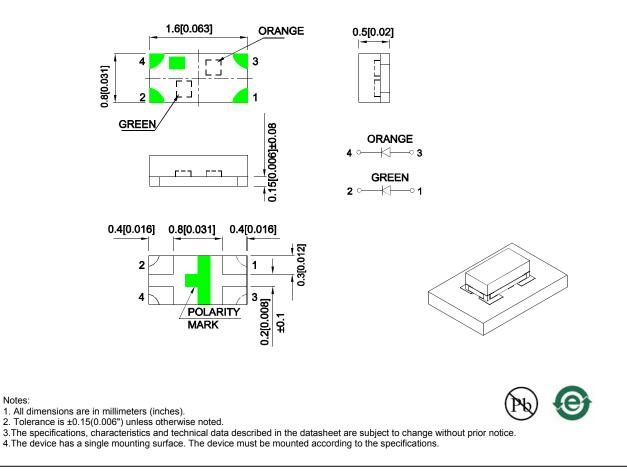
#### Features

- 1.6mmX0.8mm SMD LED, 0.5mm thickness.
- Compatible with reflow soldering.
- Available in various color combination.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

#### Descriptions

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

#### Package Dimensions



SPEC NO: DSAK7901 APPROVED: Wynec REV NO: V.7A CHECKED: Allen Liu DATE: JUN/30/2016 DRAWN: L.T.Zhang PAGE: 1 OF 6 ERP: 1203011316

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APHB1608SGNC	Super Bright Green (GaP)	Water Clear	5	15	- 130°
			*5	*15	
	Pure Orange (GaAsP/GaP)		7	15	
			*3	*10	

Notes:

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

2. 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 Green Pure Orange	565 607		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Green Pure Orange	568 602		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green Pure Orange	30 35		nm	I⊧=20mA
С	Capacitance	Super Bright Green Pure Orange	15 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Green Pure Orange	2.2 2.05	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Green Pure Orange		10 10	uA	VR = 5V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

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

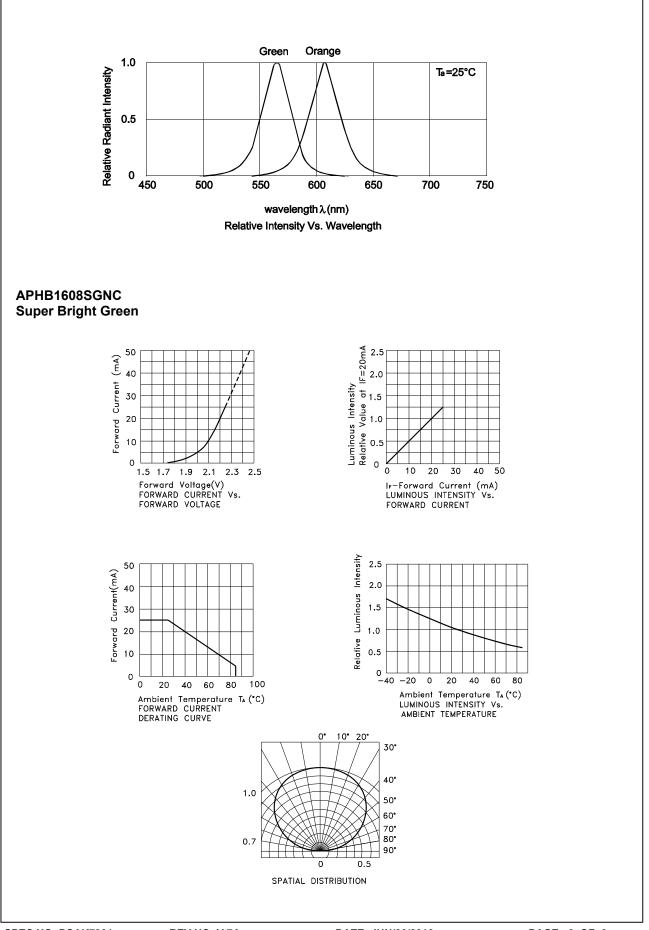
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

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

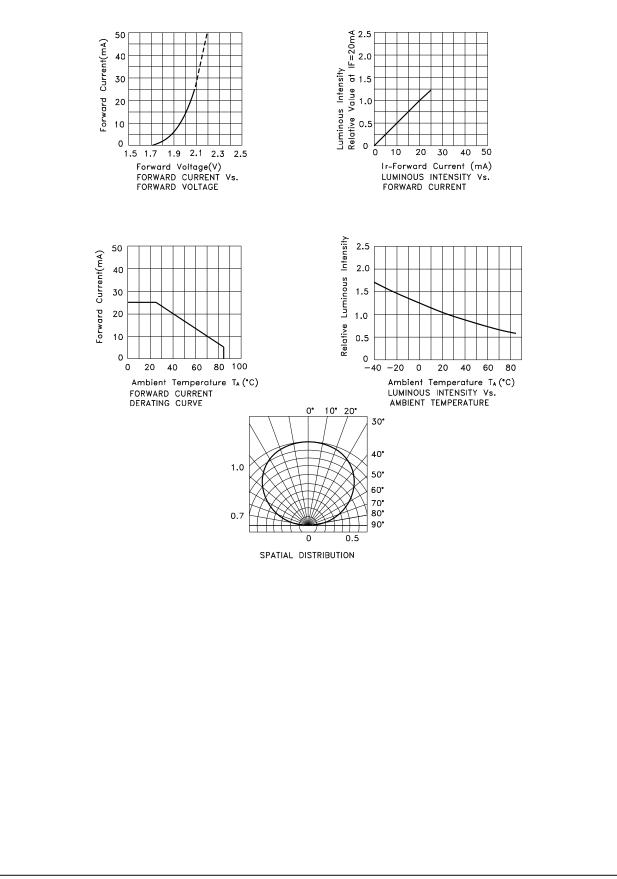
Parameter	Super Bright Green	Pure Orange	Units		
Power dissipation	62.5	62.5	mW		
DC Forward Current	25	25	mA		
Peak Forward Current [1]	140	145	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Notes:

 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 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.



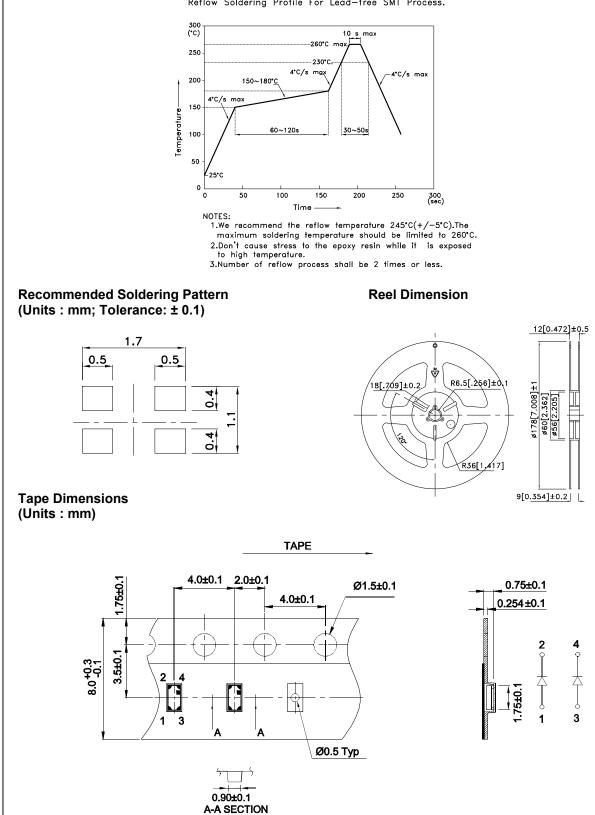
#### Pure Orange



### APHB1608SGNC

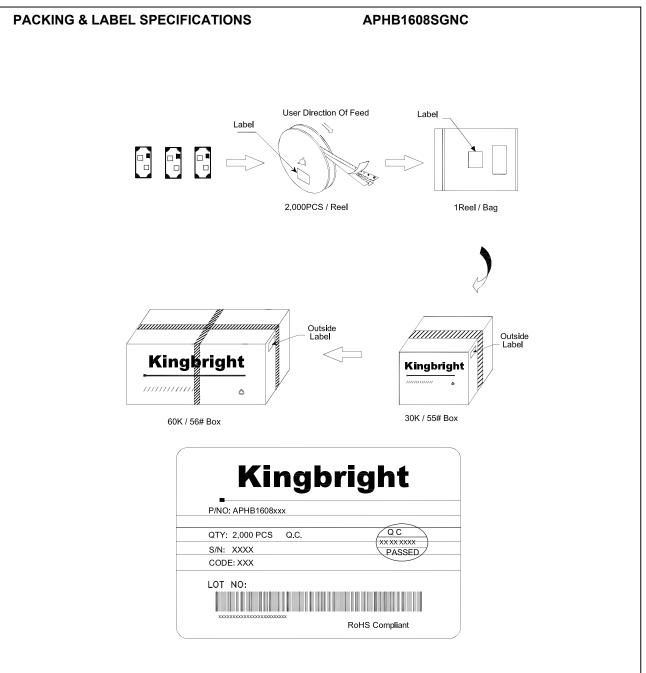
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



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