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

Part Number: APHB1608SGYC

Super Bright Green Yellow

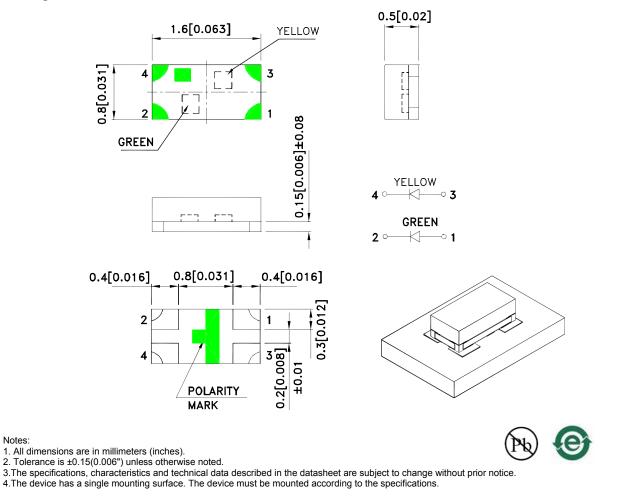
### Features

- 1.6mmX0.8mm SMT 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.

#### Description

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

### Package Dimensions



SPEC NO: DSAK7900 APPROVED: WYNEC REV NO: V.5B CHECKED: Allen Liu DATE: APR/20/2012 DRAWN: D.M.Su

PAGE: 1 OF 6 ERP: 1203011315

#### **Selection Guide** lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type Min. 201/2 Тур. Super Bright Green (GaP) 5 15 130° APHB1608SGYC Water Clear Yellow (GaAsP/GaP) 3 5

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%

3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green Yellow	565 590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Green Yellow	568 588		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green Yellow	30 35		nm	I⊧=20mA
С	Capacitance	Super Bright Green Yellow	15 20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Green Yellow	2.2 2.1	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Green Yellow		10 10	uA	VR = 5V

Notes:

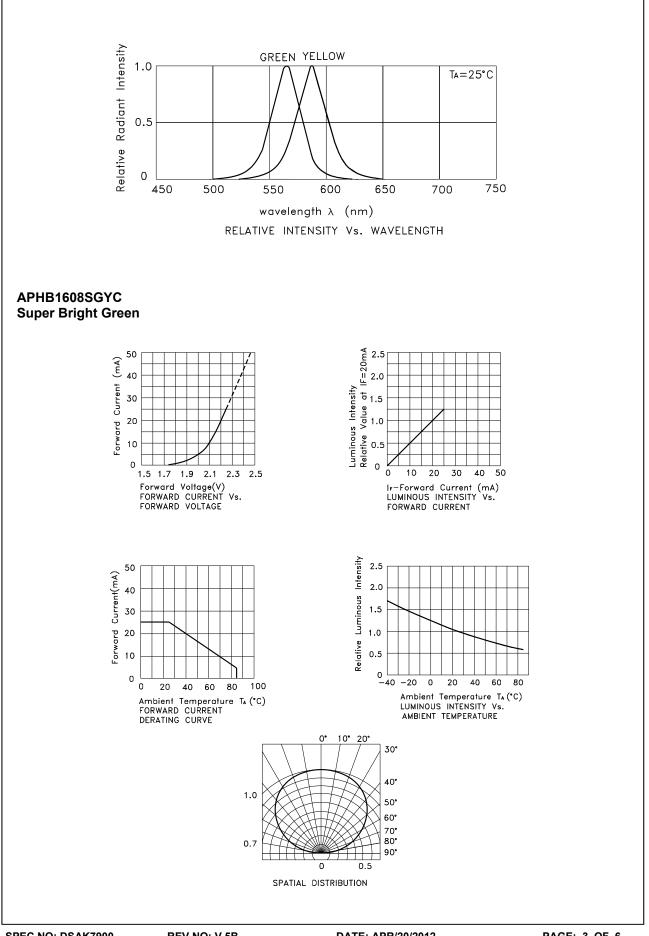
Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

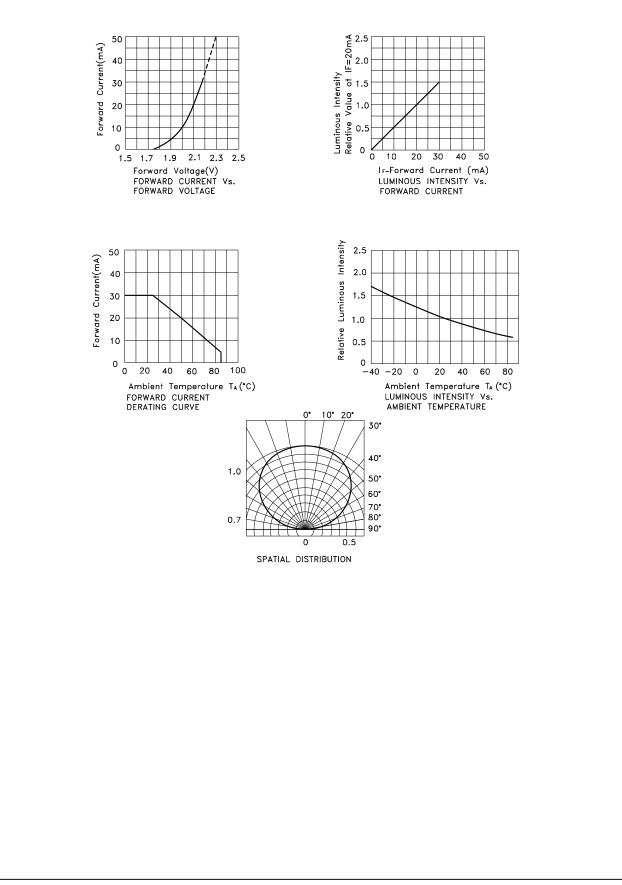
Parameter	Super Bright Green	Yellow	Units		
Power dissipation	62.5	75	mW		
DC Forward Current	25	30	mA		
Peak Forward Current [1]	140	140	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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

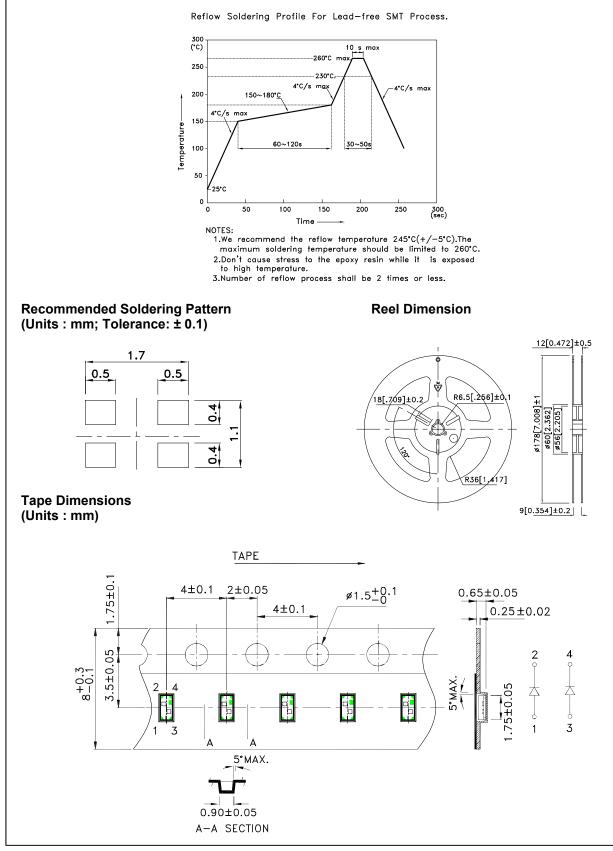


Yellow



### APHB1608SGYC

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.



REV NO: V.5B CHECKED: Allen Liu DATE: APR/20/2012 DRAWN: D.M.Su PAGE: 5 OF 6 ERP: 1203011315

