imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

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.

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

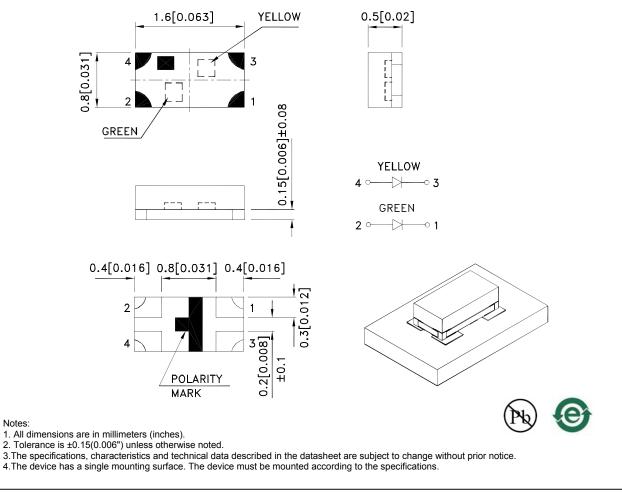
Part Number: APHB1608ZGSYKJ3C

Green Super Bright Yellow

Descriptions

- The Green source color devices are made with InGaN on Sapphire Light Emitting Diode.
- The Super Bright Yellow device is based on light emitting diode chip made from AlGaInP.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions



SPEC NO: DSAN7061 **APPROVED: WYNEC**

Notes:

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Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. Green (InGaN) 200 350 130° APHB1608ZGSYKJ3C Water Clear Super Bright Yellow (AlGaInP) 200 300

Notes:

1. θ 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.

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green Super Bright Yellow	515 590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Green Super Bright Yellow	525 590		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green Super Bright Yellow	30 20		nm	I⊧=20mA
С	Capacitance	Green Super Bright Yellow	45 45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Green Super Bright Yellow	3.3 2	4.1 2.5	V	I⊧=20mA
lr	Reverse Current	Green Super Bright Yellow		50 10	uA	VR = 5V

Electrical / Optical Characteristics at TA=25°C

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

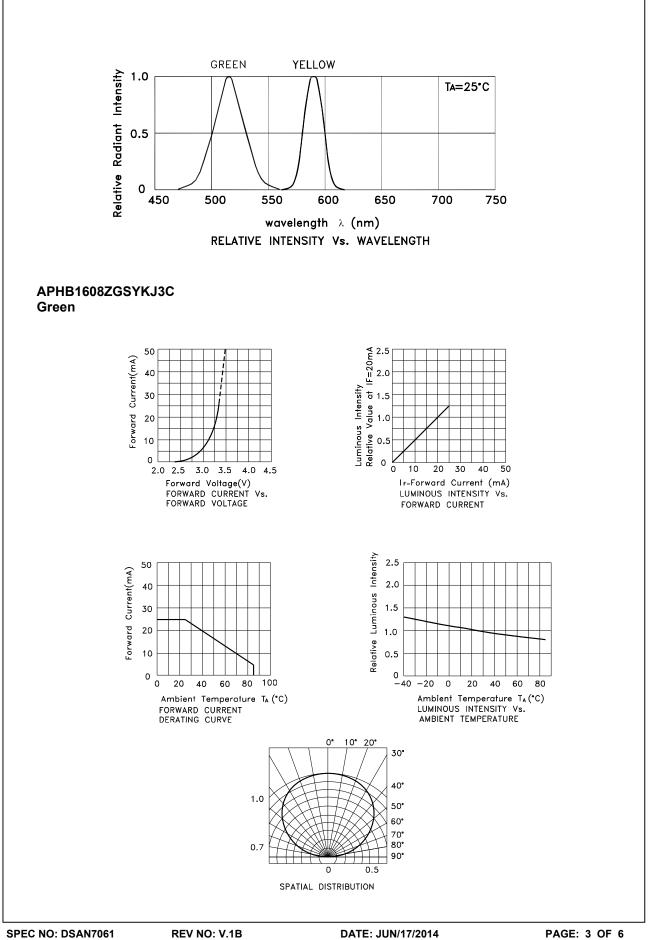
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

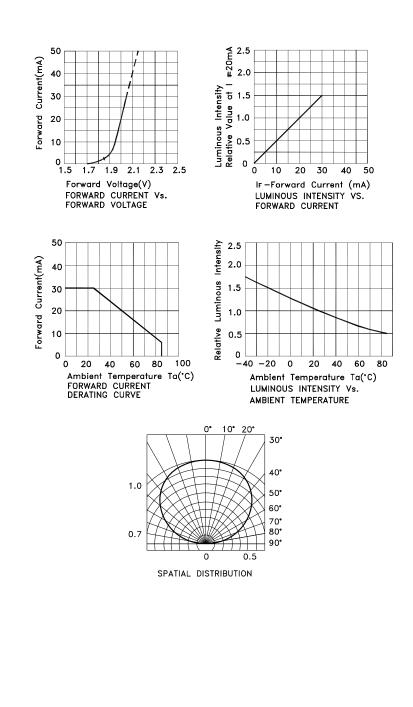
Parameter	Green Super Bright Yellow		Units		
Power dissipation	102.5	75	mW		
DC Forward Current	25	30	mA		
Peak Forward Current [1]	150	140	mA		
Reverse Voltage	5	V			
Operating Temperature -40°C To +85°C			•		
Storage Temperature	-40°C To +85°C				

Note:

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



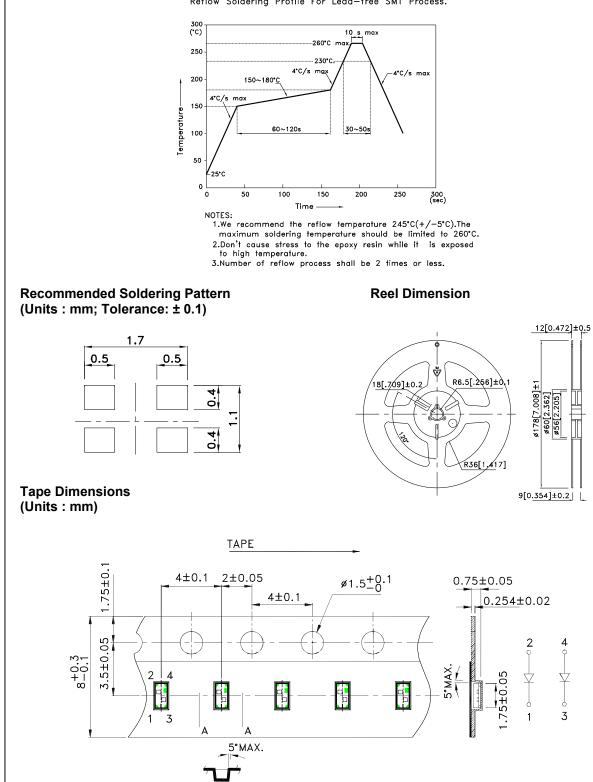
Super Bright Yellow



APHB1608ZGSYKJ3C

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.

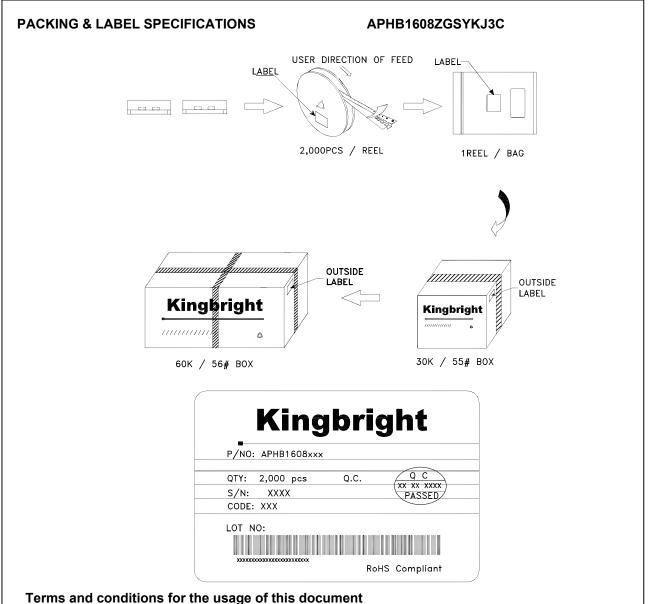


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0.90±0.05 A-A SECTION

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- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
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