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

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

Part Number: APHB1608CGKSYKC

Green Super Bright Yellow

Features

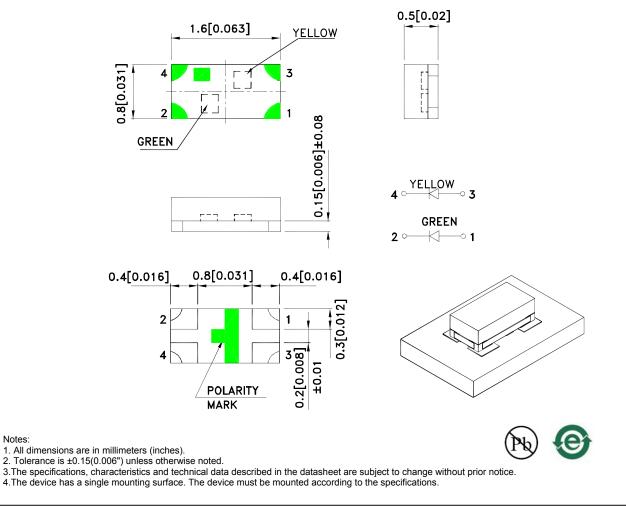
- 1.6mmX0.8mm SMT LED, 0.5mm thickness.
- Compatible with reflow soldering.
- Available in various color combination.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Description

The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions



SPEC NO: DSAL1456 APPROVED: WYNEC REV NO: V.5B CHECKED: Allen Liu DATE: APR/21/2012 DRAWN: F.Cui PAGE: 1 OF 6 ERP: 1203011475

Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. Green (AlGaInP) 20 50 APHB1608CGKSYKC Water Clear 130° Super Bright Yellow (AlGaInP) 80 150

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%.

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	Green Super Bright Yellow	574 590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Green Super Bright Yellow	570 590		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green Super Bright Yellow	20 20		nm	I⊧=20mA
С	Capacitance	Green Super Bright Yellow	15 20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Green Super Bright Yellow	2.1 2	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Green Super Bright Yellow		10 10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm.

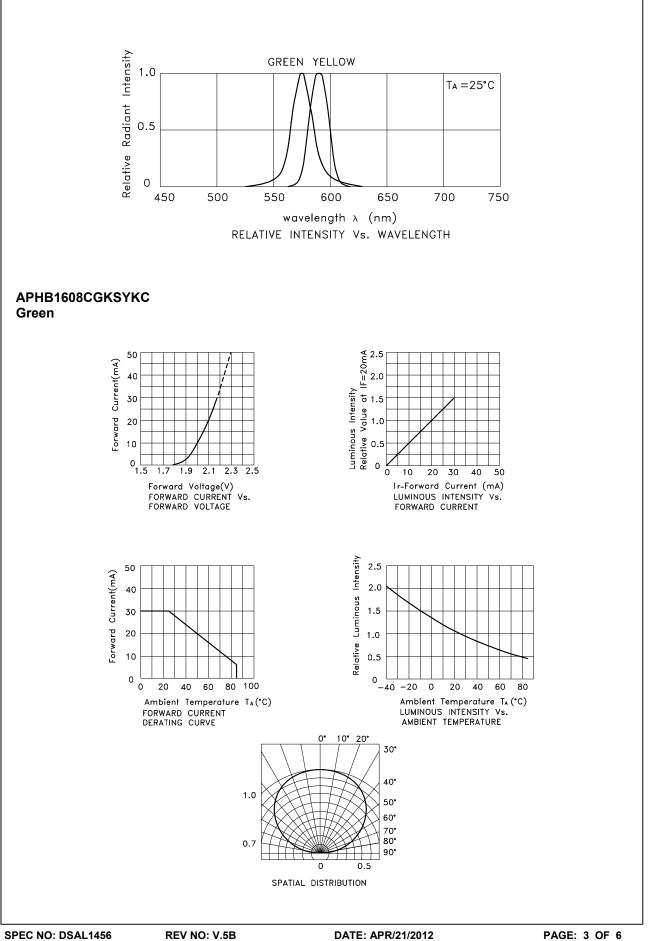
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

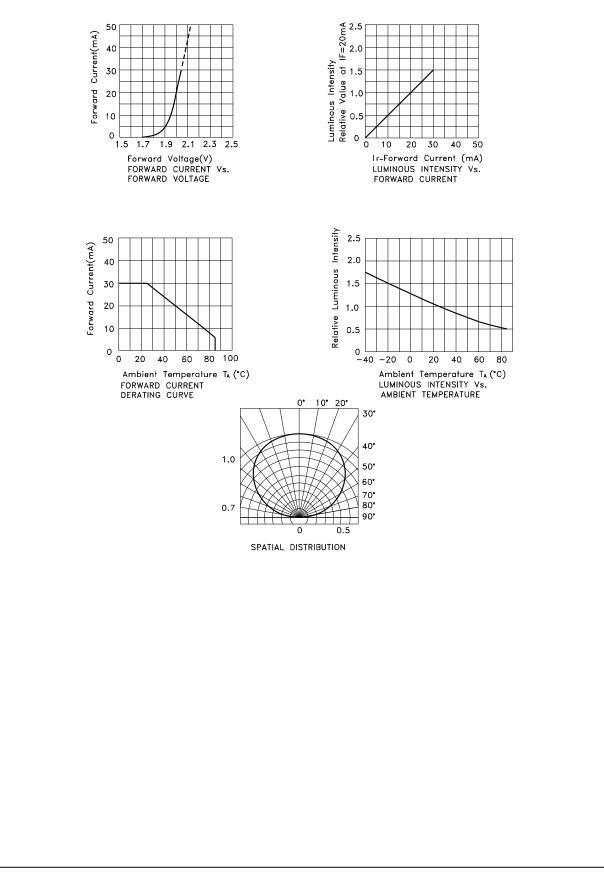
Parameter	Green	Super Bright Yellow	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	150	175	mA		
Reverse Voltage	!	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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



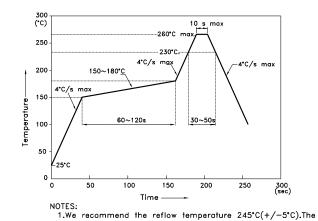
Super Bright Yellow



APHB1608CGKSYKC

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.



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.



Reel Dimension

