

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: APHB1608ZGSURKC

Green Hyper Red

Description

The Green source color devices are made with InGaN on Sapphire Light Emitting Diode.

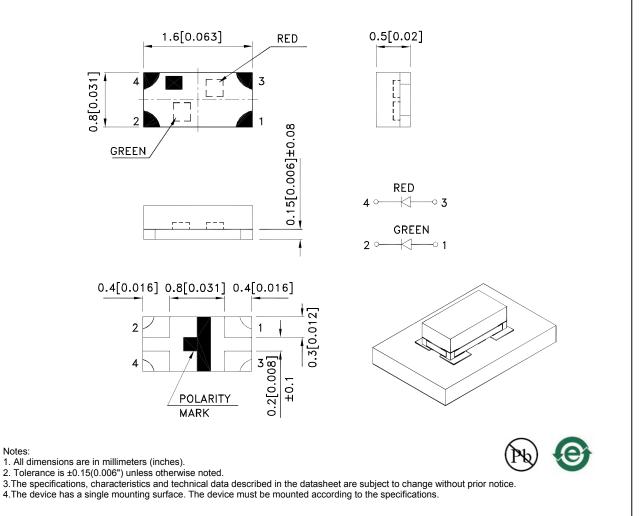
The Hyper Red source color devices are made with Al-

GalnP on GaAs substrate Light Emitting Diode. Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



SPEC NO: DSAN0769 APPROVED: WYNEC REV NO: V.1A CHECKED: Allen Liu DATE: JUN/28/2013 DRAWN: Y.Liu

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Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA			Viewing Angle [1]
			Min.	Тур.	Max.	201/2
APHB1608ZGSURKC	Green (InGaN)	Water Clear	200	-	500	- 130°
			*200	-	*500	
	Hyper Red (AlGaInP)		120	250	-	
			*40	*90	-	

Notes: 1. θ1/2 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 the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

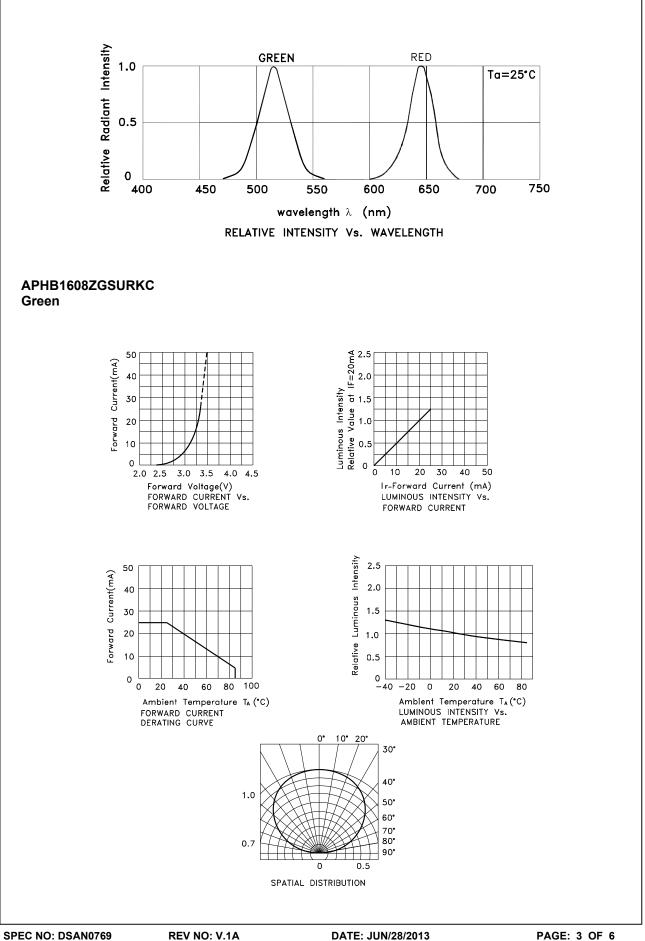
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green Hyper Red	515 645		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Green Hyper Red	525 630		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green Hyper Red	30 28		nm	I⊧=20mA
С	Capacitance	Green Hyper Red	45 35		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Green Hyper Red	3.3 1.95	4.1 2.5	V	I⊧=20mA
lr	Reverse Current	Green Hyper Red		50 10	uA	VR = 5V

Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

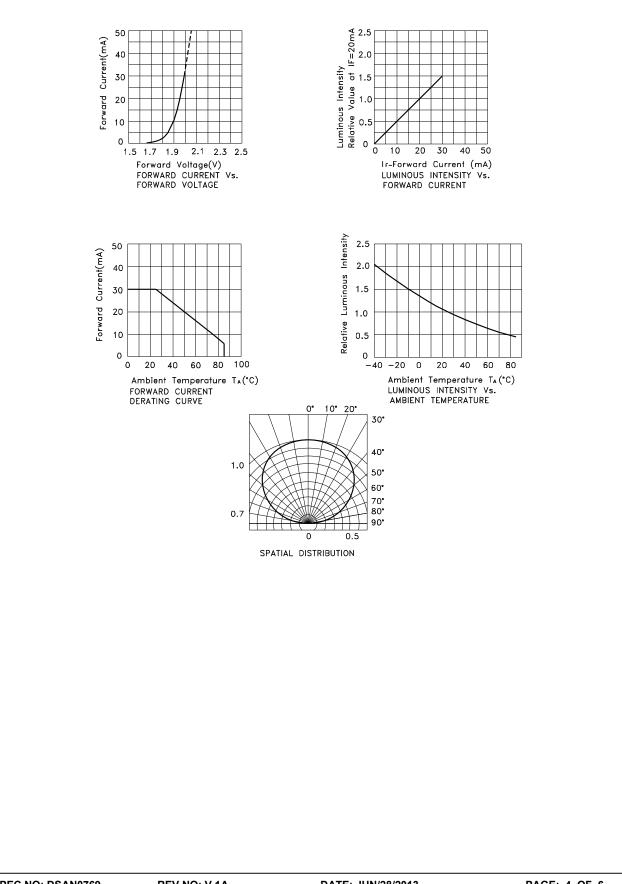
Absolute Maximum Ratings at TA=25°C

Parameter	Green	Hyper Red	Units			
Power dissipation	102.5	75	mW			
DC Forward Current	25	30	mA			
Peak Forward Current [1]	150	185	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.



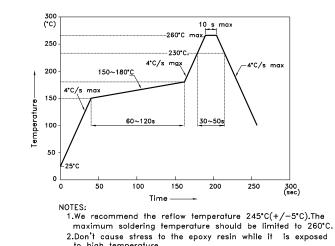
Hyper Red



APHB1608ZGSURKC

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.

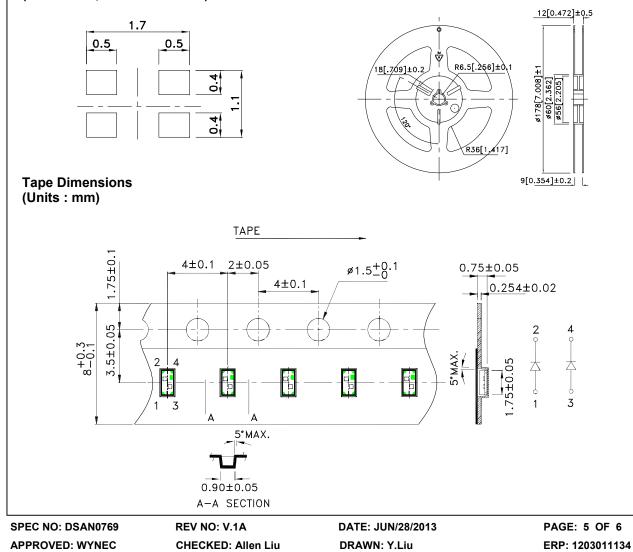
Reflow Soldering Profile For Lead-free SMT Process.

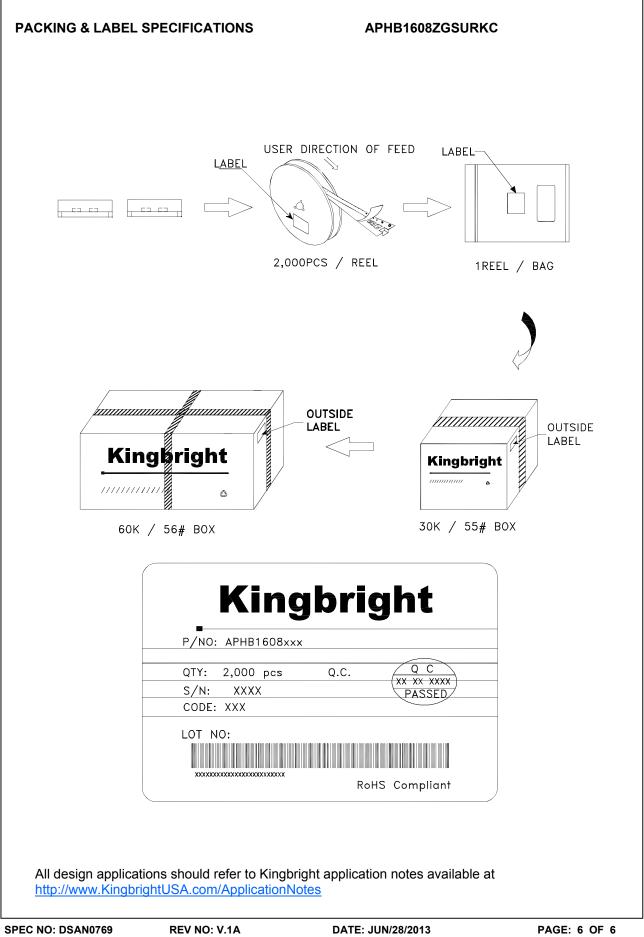


to high temperature. 3.Number of reflow process shall be 2 times or less.



Reel Dimension





Mouser Electronics

Authorized Distributor

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Kingbright: APHB1608ZGSURKC