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

Part Number: APHB1608LCGKSURKC

Green Hyper Red

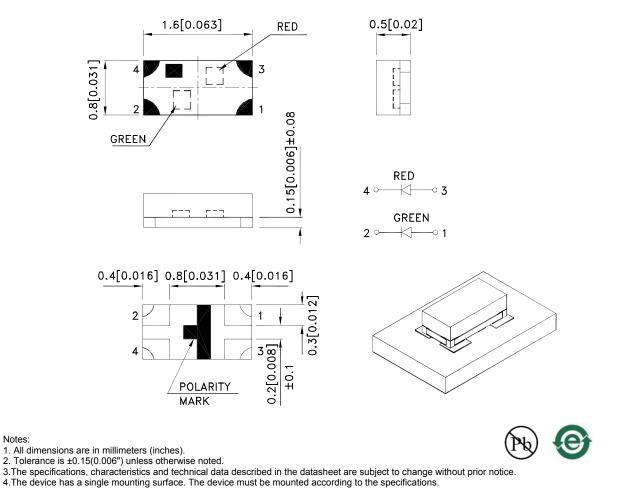
#### Features

- 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.
- Low current IF=2mA operating.
- RoHS compliant.

#### **Descriptions**

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

#### Package Dimensions



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Selection Guide							
Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]		
			Min.	Тур.	201/2		
APHB1608LCGKSURKC	Green (AlGaInP)	Water Clear	1.2	3	- 130°		
			*1.2	*3			
	Hyper Red (AlGaInP)		10	20			
			*2	*8			

Notes:

1. 01/2 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	Emitting Color	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green Hyper Red		574 645		nm	I⊧=2mA
λD [1]	Dominant Wavelength	Green Hyper Red		570 630		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	Green Hyper Red		20 28		nm	I⊧=2mA
С	Capacitance	Green Hyper Red		15 35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green Hyper Red	1.5 1.5	1.9 1.75	2.1 2.1	V	I⊧=2mA
lr	Reverse Current	Green Hyper Red			10 10	uA	VR = 5V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

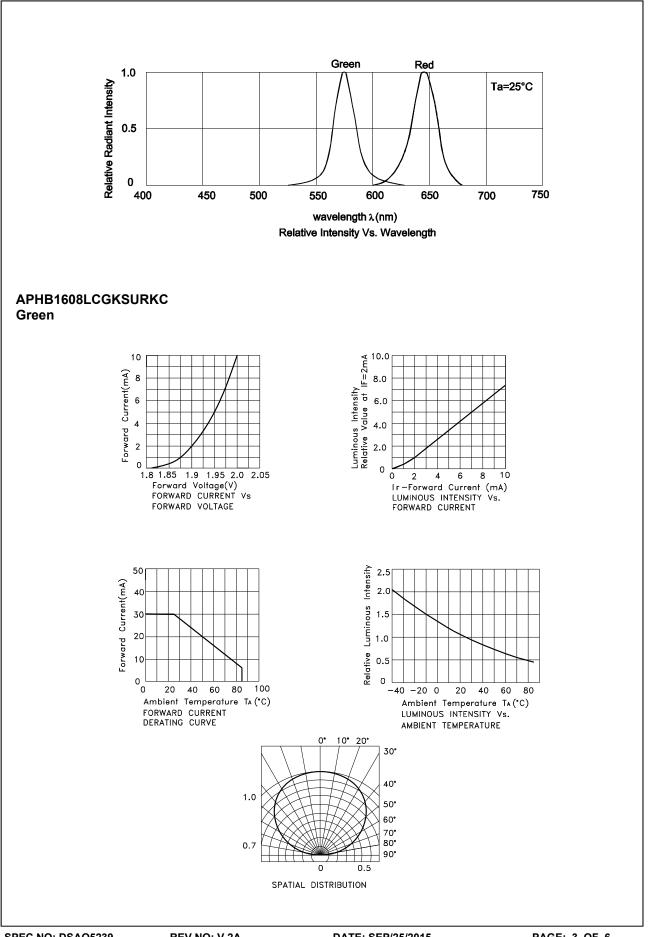
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

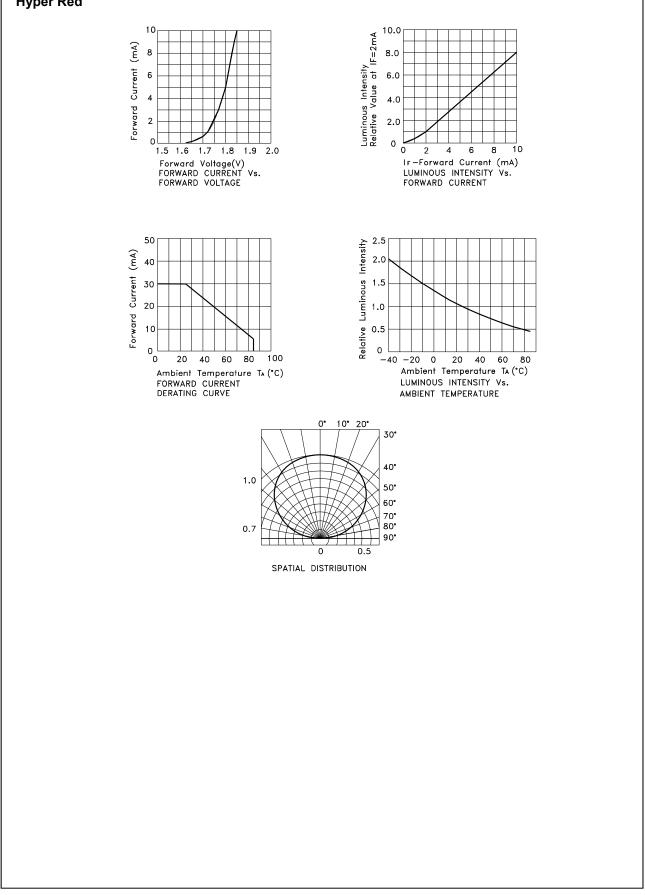
#### Absolute Maximum Ratings at TA=25°C

Parameter	Green	Hyper Red	Units		
Power dissipation	63	63	mW		
DC Forward Current	30	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.



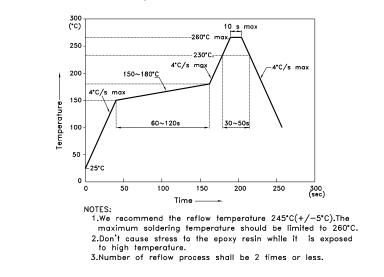
### Hyper Red



### APHB1608LCGKSURKC

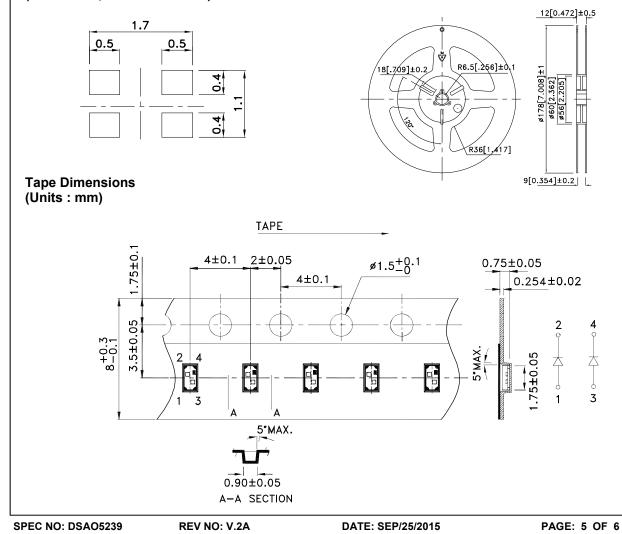
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)

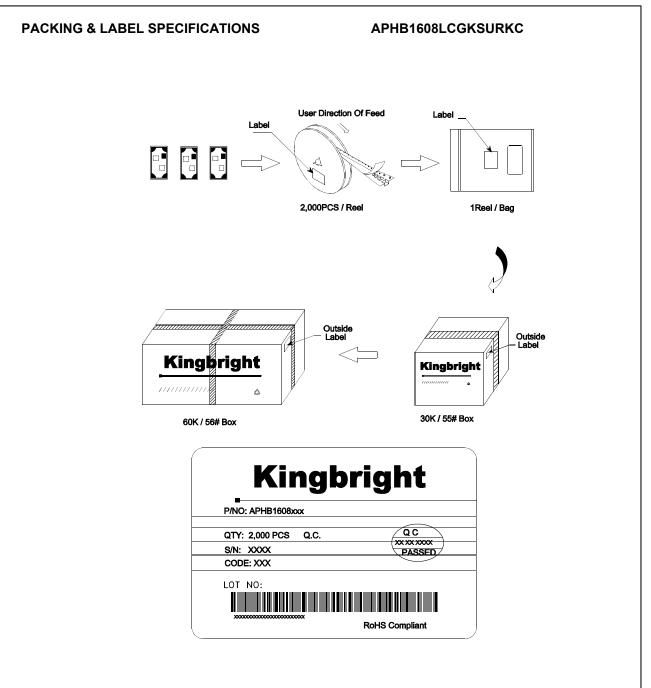
#### **Reel Dimension**



APPROVED: Wynec

CHECKED: Allen Liu

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