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

Part Number: APHB1608SGEC

Super Bright Green High Efficiency Red

Features

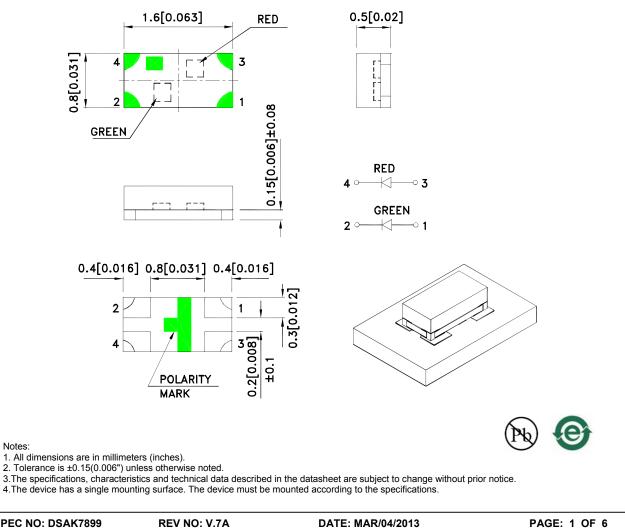
- 1.6mmX0.8mm SMT LED, 0.5mm thickness.
- Compatible with reflow soldering.
- Available in various color combination.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Description

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

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions



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Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min. Typ.	Тур.	201/2
APHB1608SGEC	Super Bright Green (GaP)	Water Clear	5	15	130°
			*5	*15	
	High Efficiency Red (GaAsP/GaP)		7	15	
			*5	*12	

Notes:

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

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	Super Bright Green High Efficiency Red	565 627		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Green High Efficiency Red	568 617		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green High Efficiency Red	30 45		nm	I⊧=20mA
С	Capacitance	Super Bright Green High Efficiency Red	15 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Green High Efficiency Red	2.2 2	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Green High Efficiency Red		10 10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm.

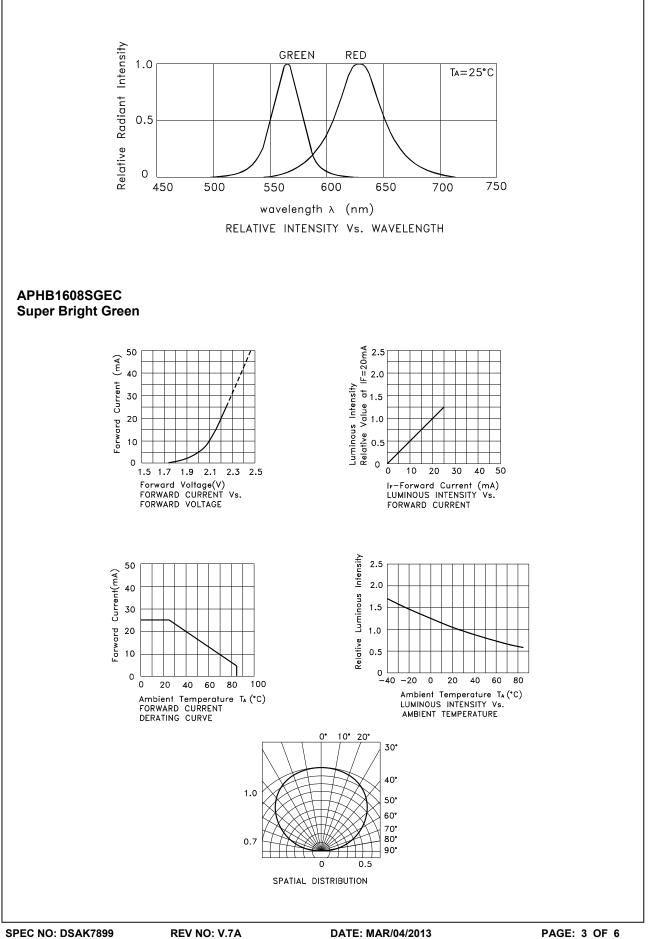
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

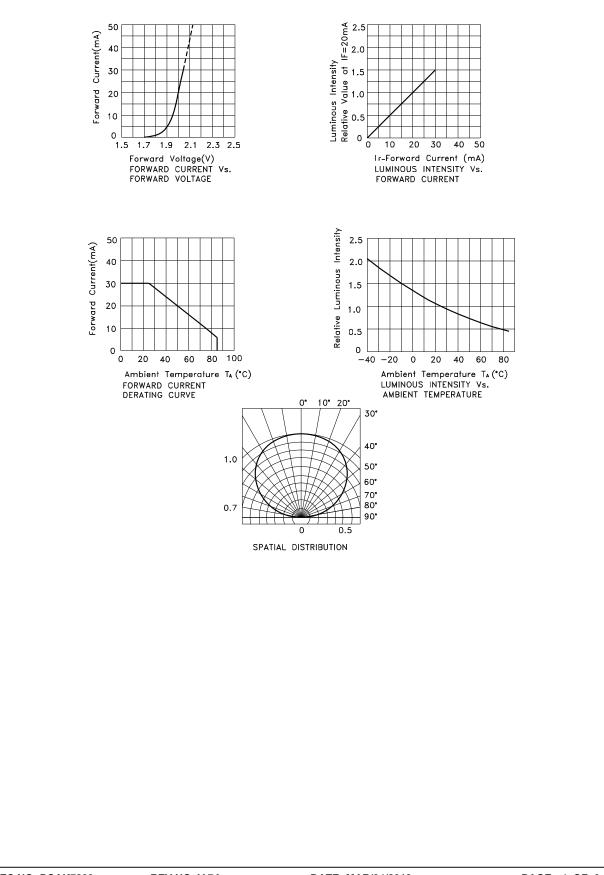
Parameter	Super Bright Green	High Efficiency Red	Units		
Power dissipation	62.5	75	mW		
DC Forward Current	25	30	mA		
Peak Forward Current [1]	140	160	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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

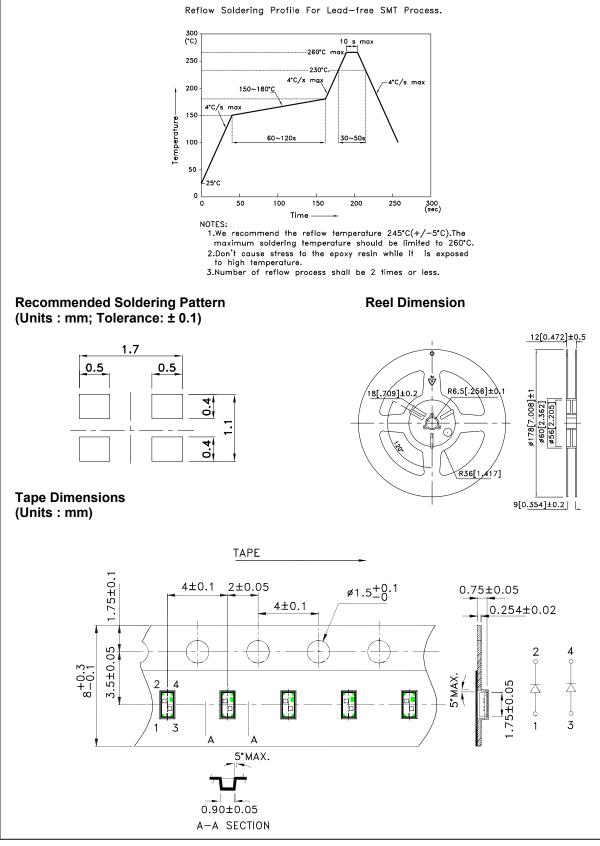


High Efficiency Red

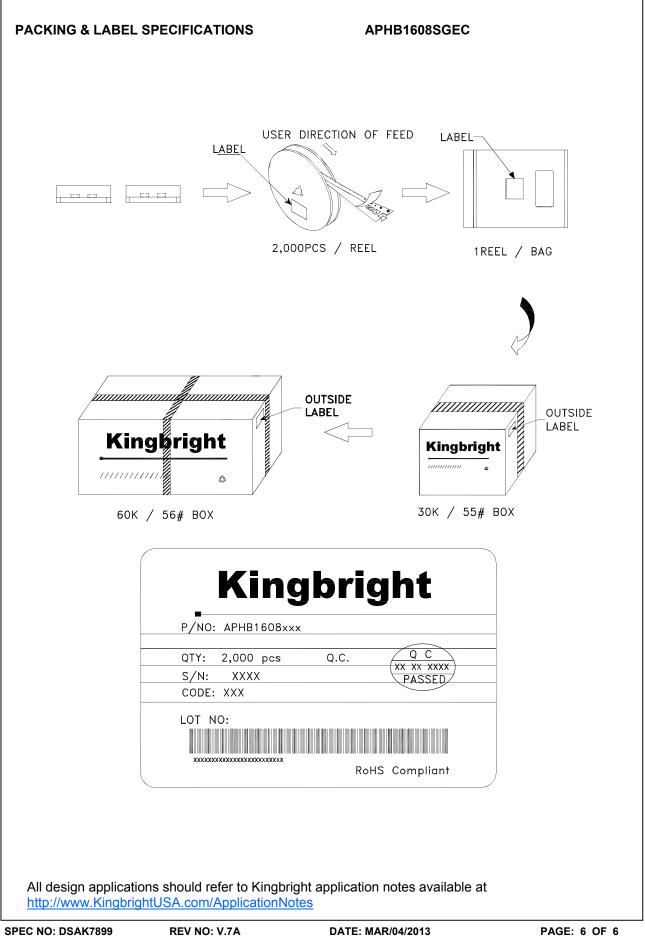


APHB1608SGEC

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.



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