1.6x1.5mm BI-COLOR SMD CHIP LED LAMP

Part Number: APTB1615SYKCGKC-F01

Super Bright Yellow Green

Features

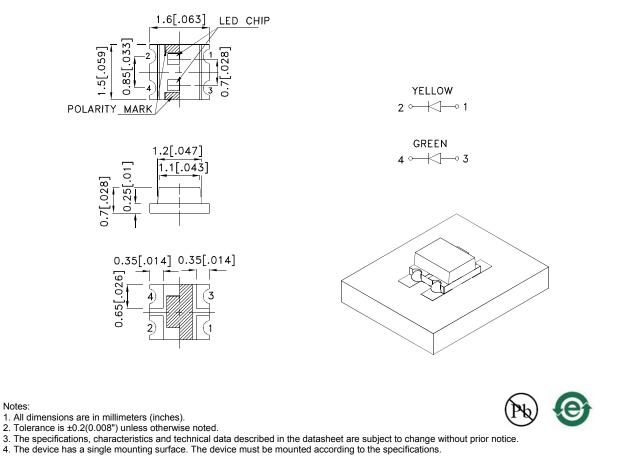
- 1.6mmx1.5mm SMT LED, 0.7mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

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

Package Dimensions



DATE: MAR/16/2013 **DRAWN: F.Cui**

PAGE: 1 OF 6 ERP: 1203002140

Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. Super Bright Yellow (AlGaInP) 80 120 APTB1615SYKCGKC-F01 Water Clear 120° Green (AlGaInP) 20 50

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

Electrical / Optical Characteristics at TA=25°C

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

Notes:

1.Wavelength: +/-1nm.

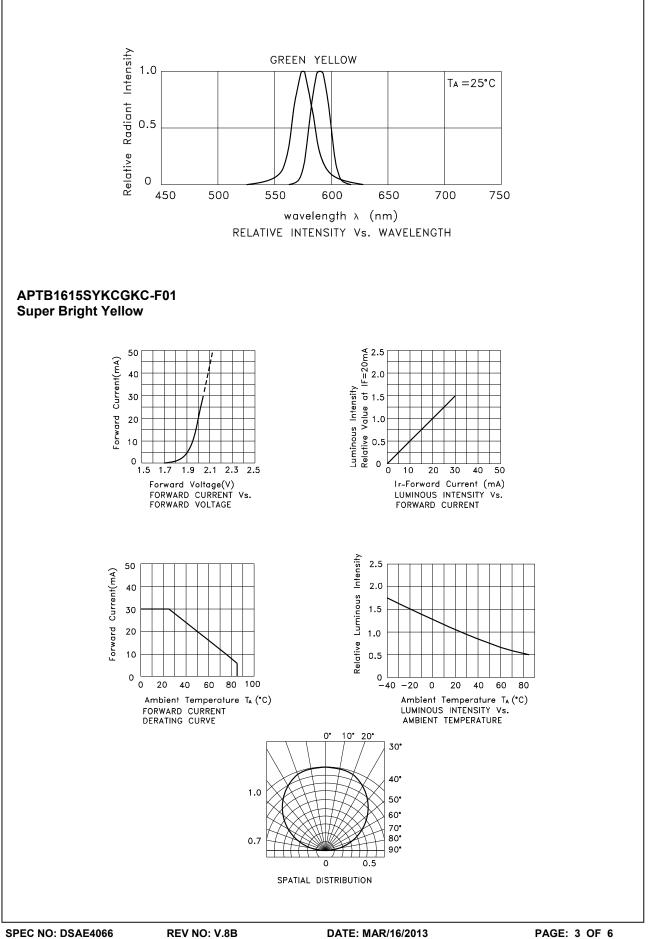
2.Forward Voltage: +/-0.1V. 3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

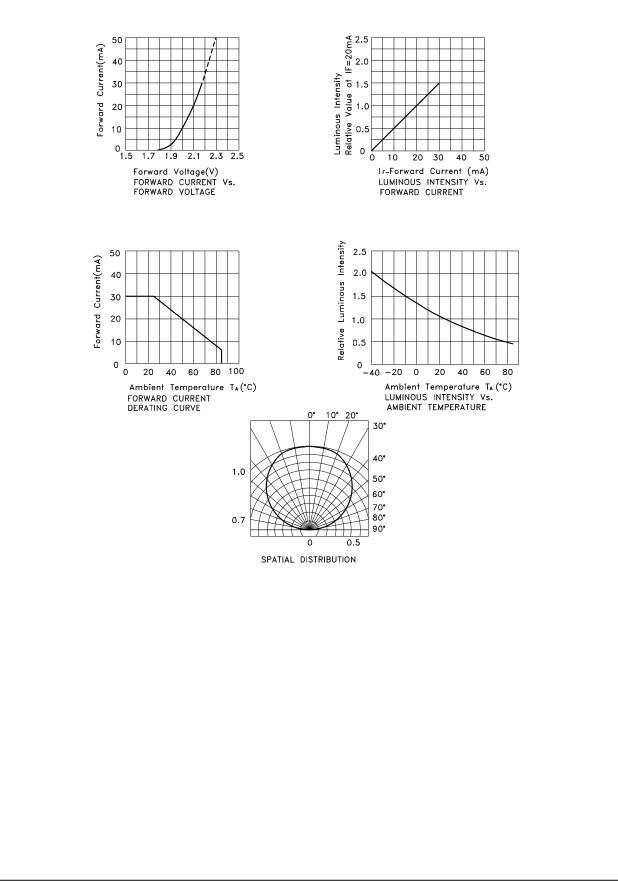
Parameter	Super Bright Yellow Green		Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	175	150	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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

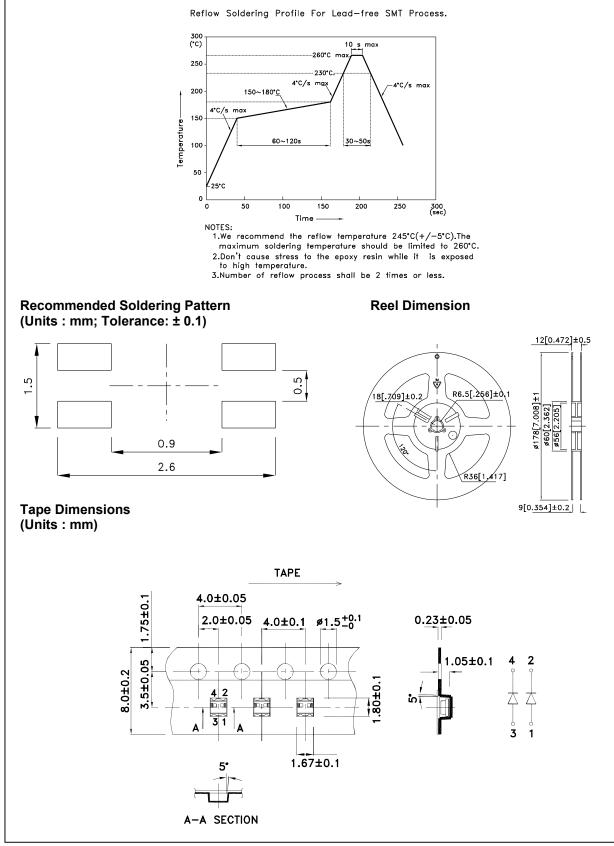


Green

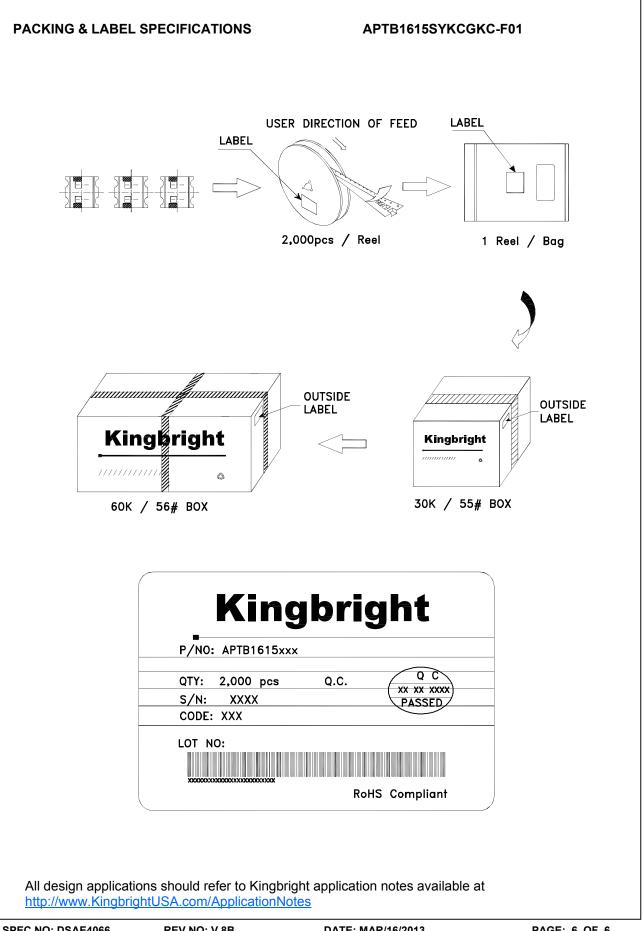


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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



REV NO: V.8B CHECKED: Allen Liu DATE: MAR/16/2013 DRAWN: F.Cui PAGE: 5 OF 6 ERP: 1203002140



DATE: MAR/16/2013 DRAWN: F.Cui