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

Part Number: APTB1615YSGC-F01

Yellow Super Bright Green

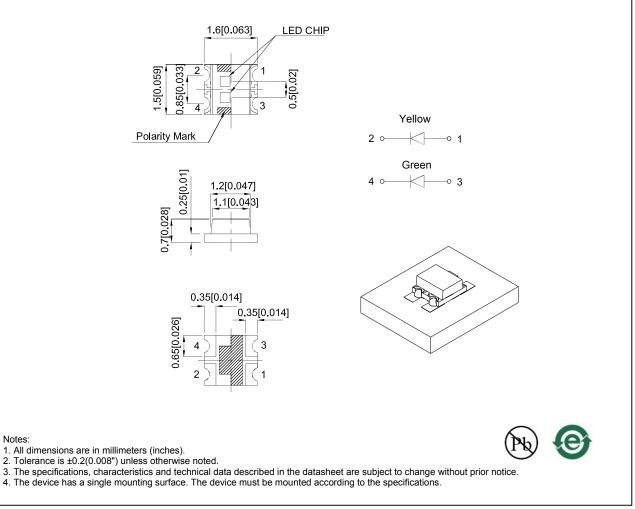
Features

- 1.6mmx1.5mm SMD LED, 0.7mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Descriptions

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

Package Dimensions



SPEC NO: DSAE5929 APPROVED: Wynec REV NO: V.13B CHECKED: Allen Liu DATE: SEP/05/2016 DRAWN: W.Q.Zhong PAGE: 1 OF 6 ERP: 1203002150

Selection Guide Part No. Emitting Color (Material) Lens Type @ 20mA Ang							
			Min.	Тур.	201/2		
APTB1615YSGC-F01	Yellow (GaAsP/GaP)	Watan Olaan	3	8	- 150°		
	Super Bright Green (GaP)	Water Clear	5	12			

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 CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow Super Bright Green	590 565		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Yellow Super Bright Green	588 568		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Yellow Super Bright Green	35 30		nm	I⊧=20mA
С	Capacitance	Yellow Super Bright Green	20 15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Yellow Super Bright Green	2.1 2.2	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Yellow Super Bright Green		10 10	uA	VR = 5V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

3. Wavelength value is traceable to CIE127-2007 tandards.

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

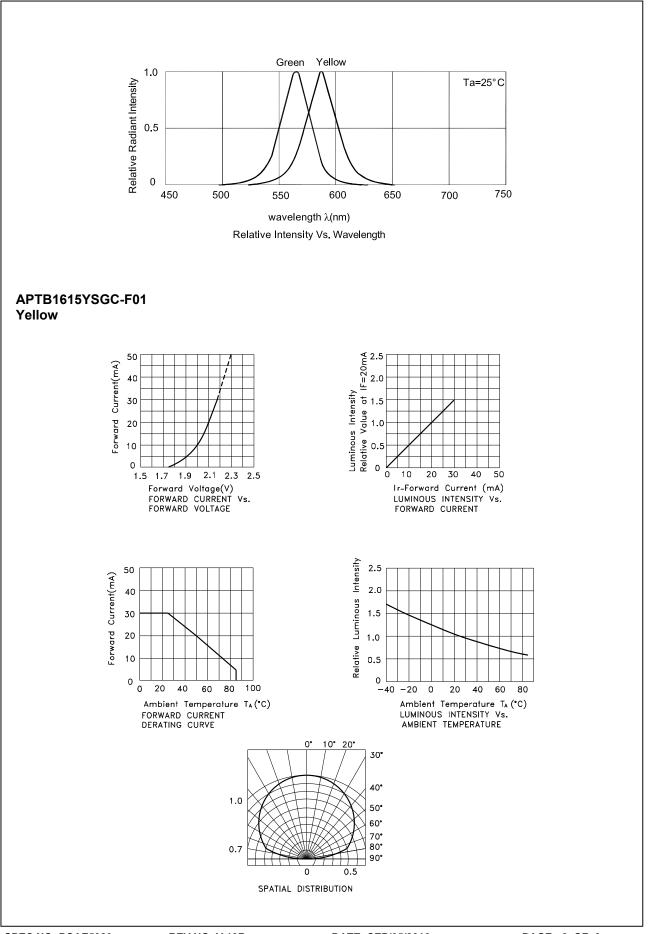
Absolute Maximum Ratings at TA=25°C

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

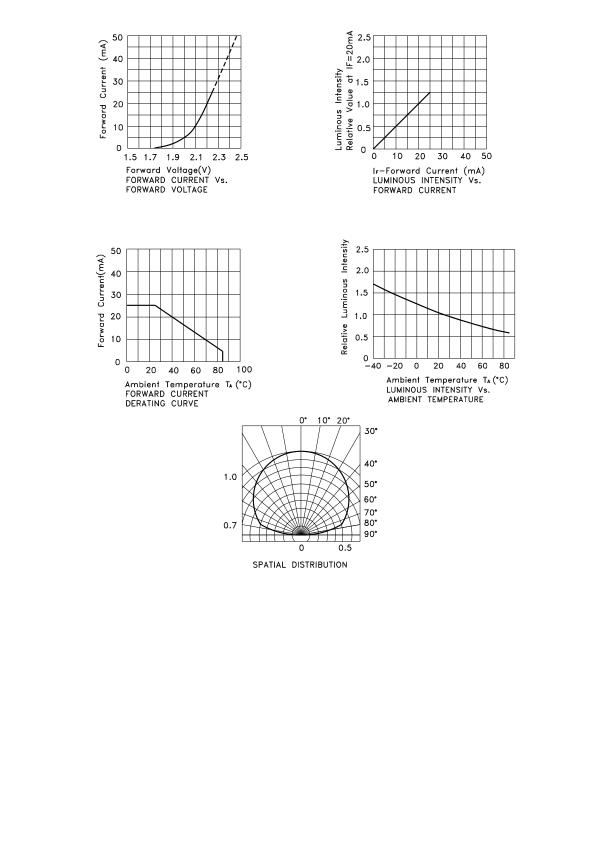
Notes:

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

 Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



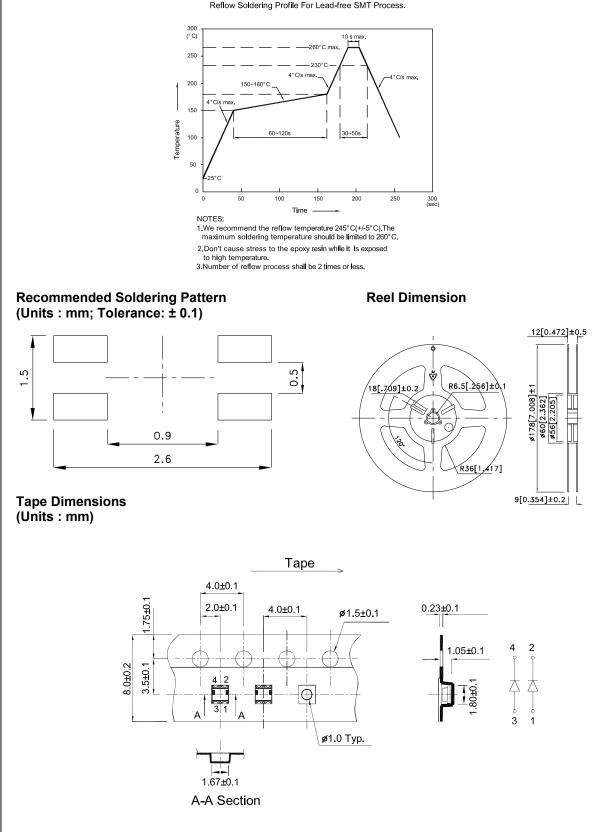
Super Bright Green



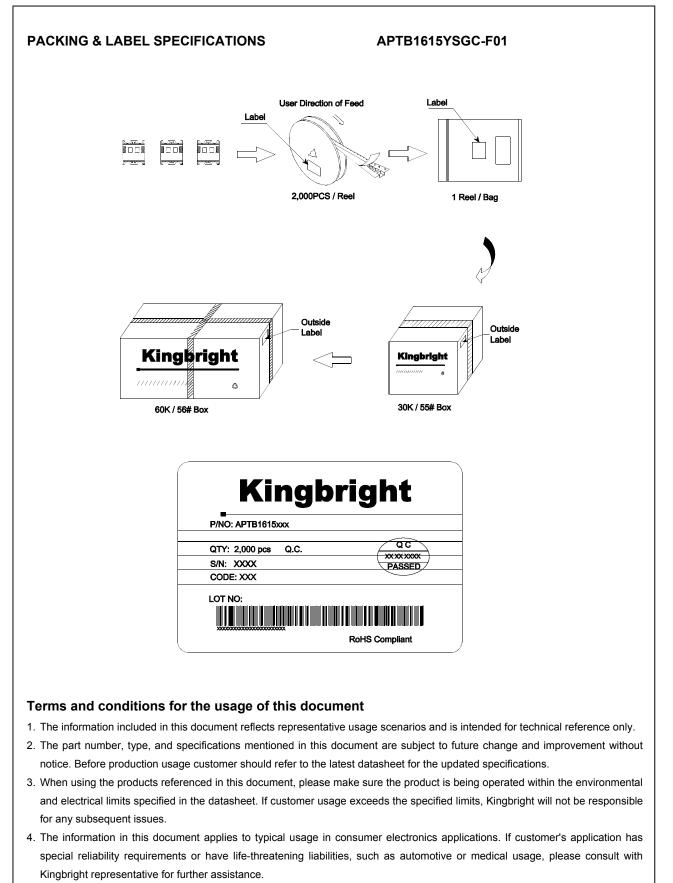
APTB1615YSGC-F01

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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- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

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