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

Part Number: KPTB-1615SURKSGC

Hyper Red Super Bright Green

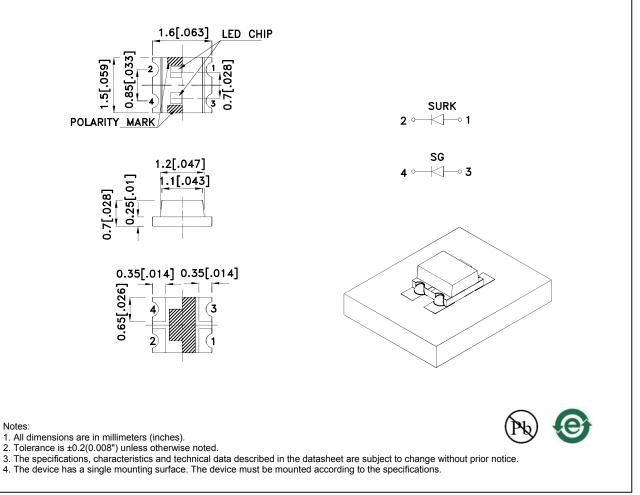
### Features

- 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 Hyper Red source color devices are made with Al-GaInP on GaAs substrate Light Emitting Diode. The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

#### Package Dimensions



SPEC NO: DSAB4508 APPROVED: WYNEC REV NO: V.12 CHECKED: Allen Liu DATE: NOV/04/2010 DRAWN: Y.F.Lv PAGE: 1 OF 6 ERP: 1203002131

#### **Selection Guide** lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type Min. 201/2 Тур. Hyper Red (AlGaInP) 120 200 KPTB-1615SURKSGC Water Clear 120° Super Bright Green (GaP) 8 15

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Super Bright Green	650 565		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Super Bright Green	630 568		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Super Bright Green	28 30		nm	I⊧=20mA
С	Capacitance	Hyper Red Super Bright Green	35 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red Super Bright Green	1.95 2.2	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Hyper Red Super Bright Green		10 10	uA	VR = 5V

Notes:

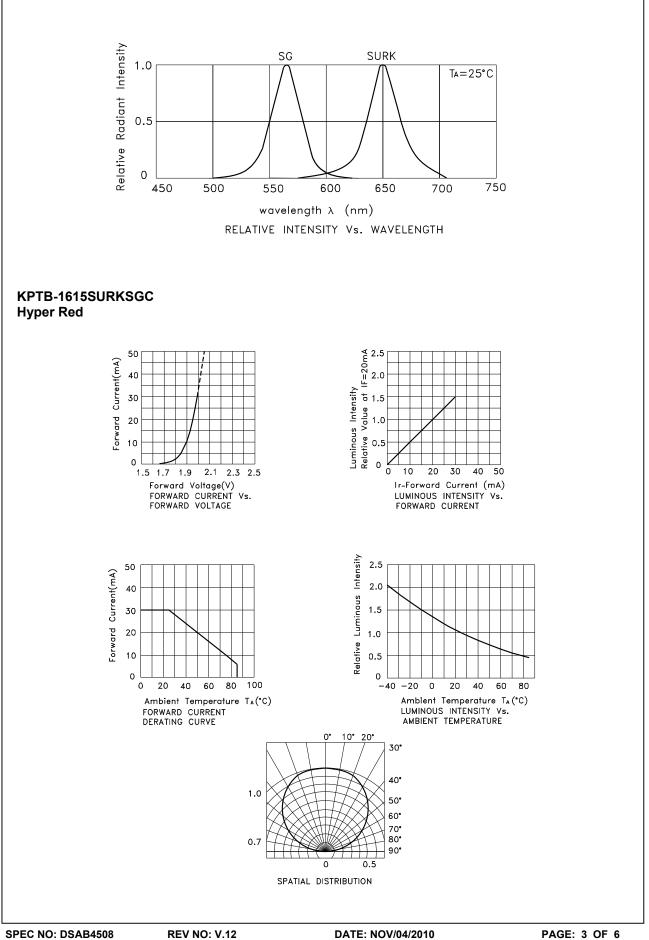
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

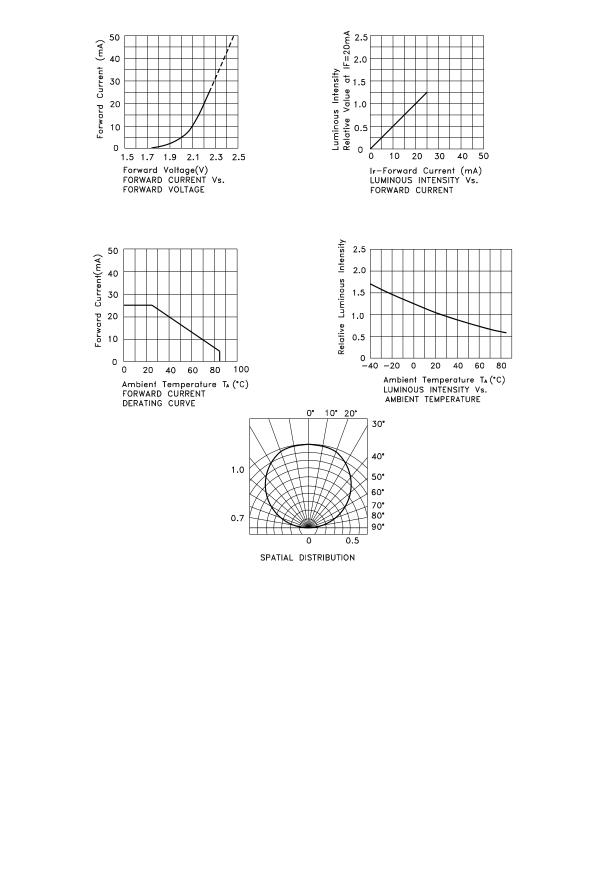
Parameter	Hyper Red	Super Bright Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	185	140	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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

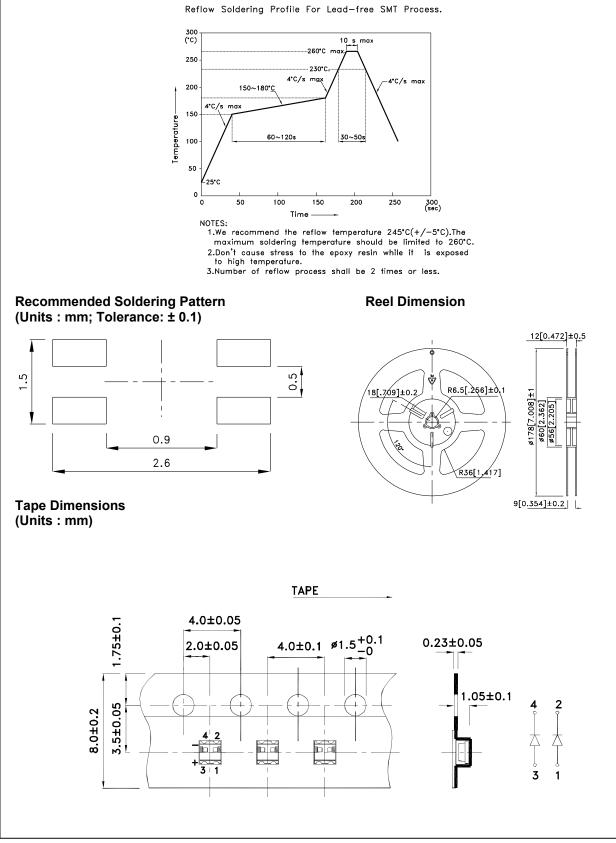


### Super Bright Green



#### KPTB-1615SURKSGC

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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