### 1.6X1.25mm BI-COLOR SMD CHIP LED LAMP

Part Number: APTB1612SURKCGKC-F01

Hyper Red Green

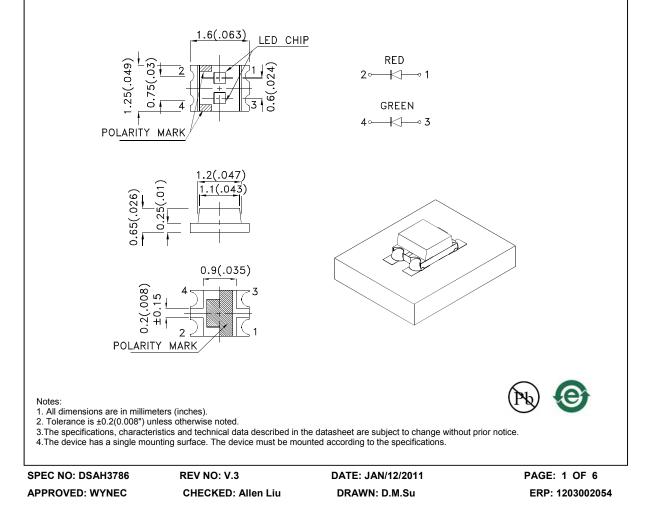
#### Features

- 1.6mmx1.25mm SMT LED, 0.65mm thickness.
- Bi-color, 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-GalnP on GaAs substrate Light Emitting Diode. The Green source color devices are made with AlGalnP on GaAs substrate Light Emitting Diode.

### Package Dimensions



	Selection Guide										
	Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]					
				Min.	Тур.	201/2					
Ī	APTB1612SURKCGKC-F01	Hyper Red (AlGaInP)	Water Clear	120	200	120°					
		Green (AlGaInP)	Water Cled	20	55						

Notes: 1.  $\theta$ 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%.

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Green	650 574		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Green	630 570		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Green	28 20		nm	I⊧=20mA
С	Capacitance	Hyper Red Green	35 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red Green	1.95 2.1	2.5 2.5	V	l⊧=20mA
lr	Reverse Current	Hyper Red Green		10 10	uA	VR = 5V

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

Notes:

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

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

Parameter	Hyper Red	Green	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	185	150	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

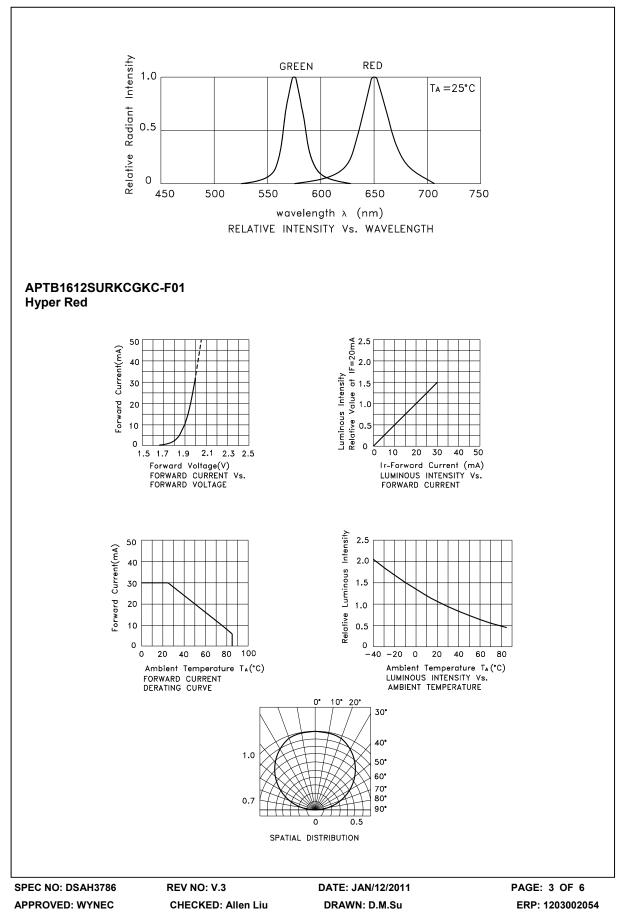
Note:

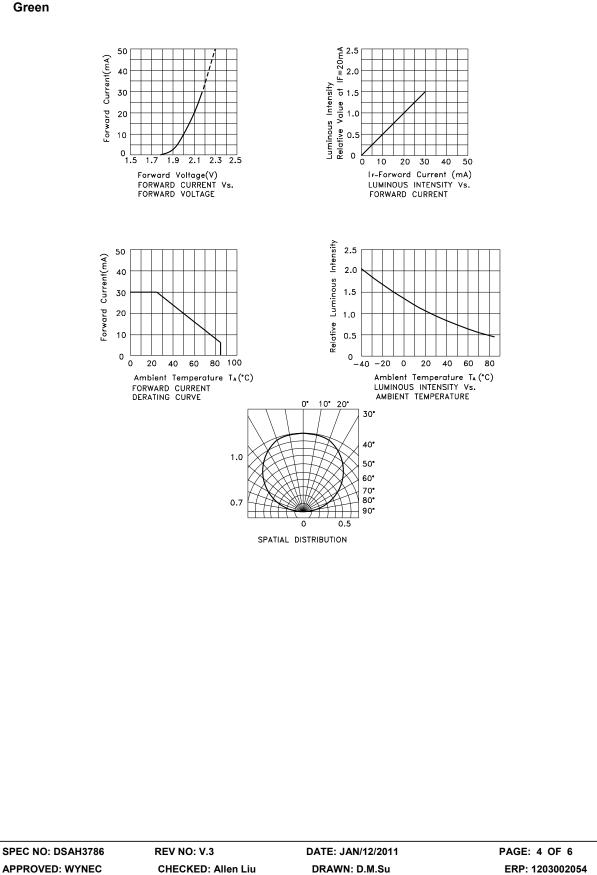
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

SPEC NO: DSAH3786 APPROVED: WYNEC

REV NO: V.3 CHECKED: Allen Liu DATE: JAN/12/2011 DRAWN: D.M.Su

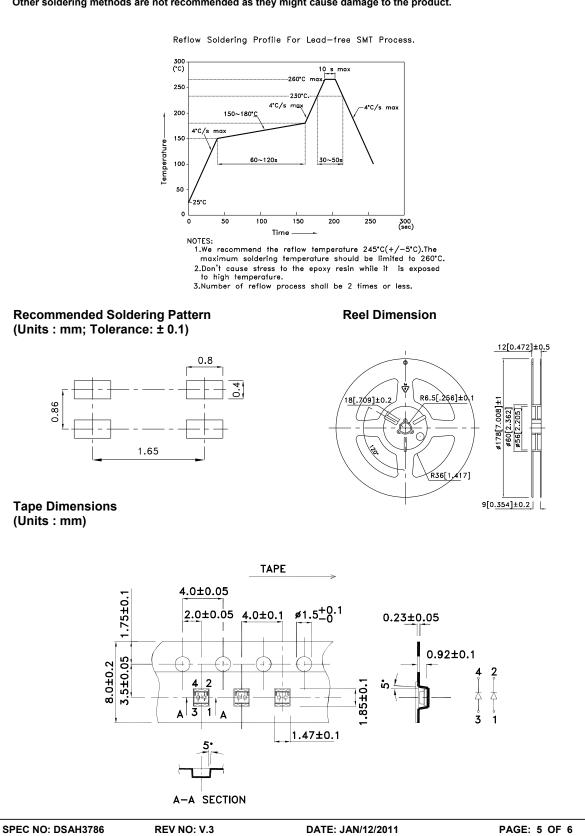
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



DRAWN: D.M.Su

ERP: 1203002054

CHECKED: Allen Liu

APPROVED: WYNEC

