3.2x2.4mm SMD CHIP LED LAMP

Part Number: APBD3224SURKCGKC-F01

Hyper Red Green

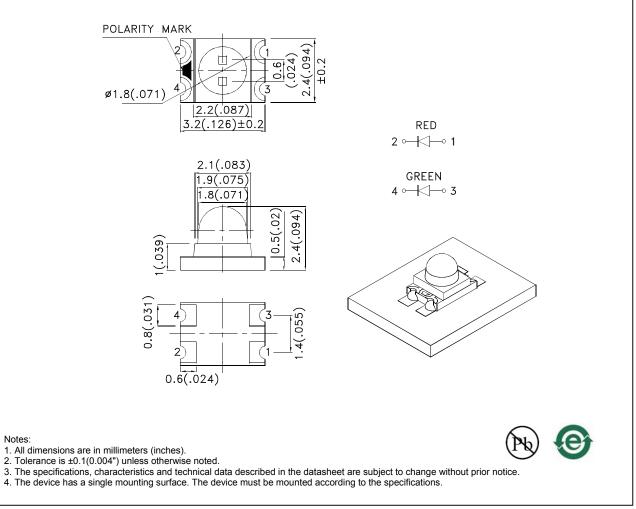
Features

- 3.2x2.4mm SMT LED, 2.4mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 1500pcs / 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



SPEC NO: DSAH3731 APPROVED: WYNEC REV NO: V.5A CHECKED: Allen Liu DATE: APR/02/2013 DRAWN: Q.M.Chen PAGE: 1 OF 6 ERP: 1203000875

Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 700 1300 Hyper Red (AlGaInP) *120 *400 APBD3224SURKCGKC-F01 Water Clear 20° 80 280 Green (AlGaInP) *80 *280

Notes:

1. θ 1/2 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	Hyper Red Green	645 574		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	I⊧=20mA
lr	Reverse Current	Hyper Red Green		10 10	uA	VR = 5V

Notes:

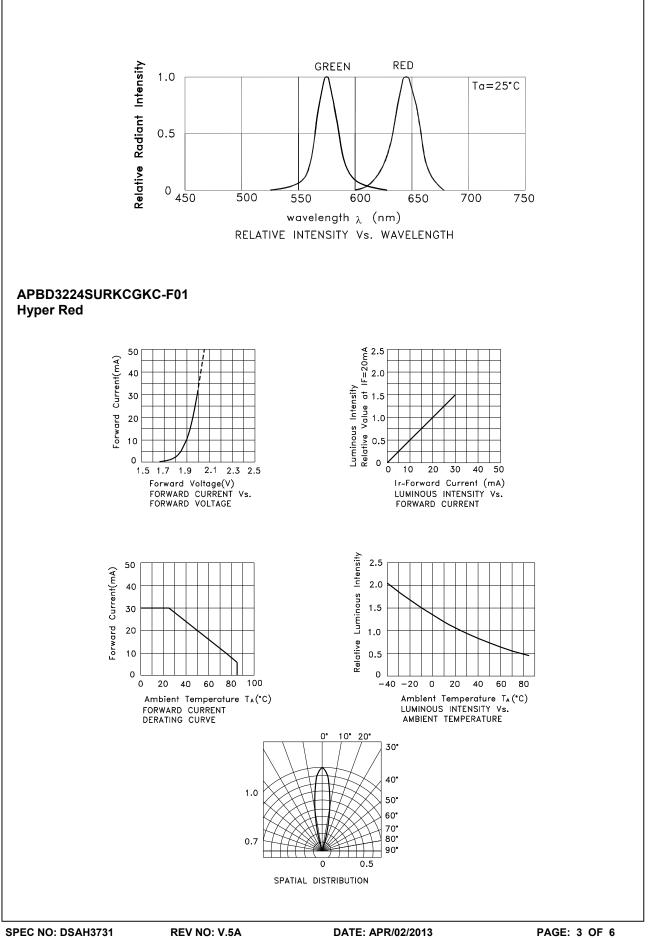
1.Wavelength: +/-1nm.

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

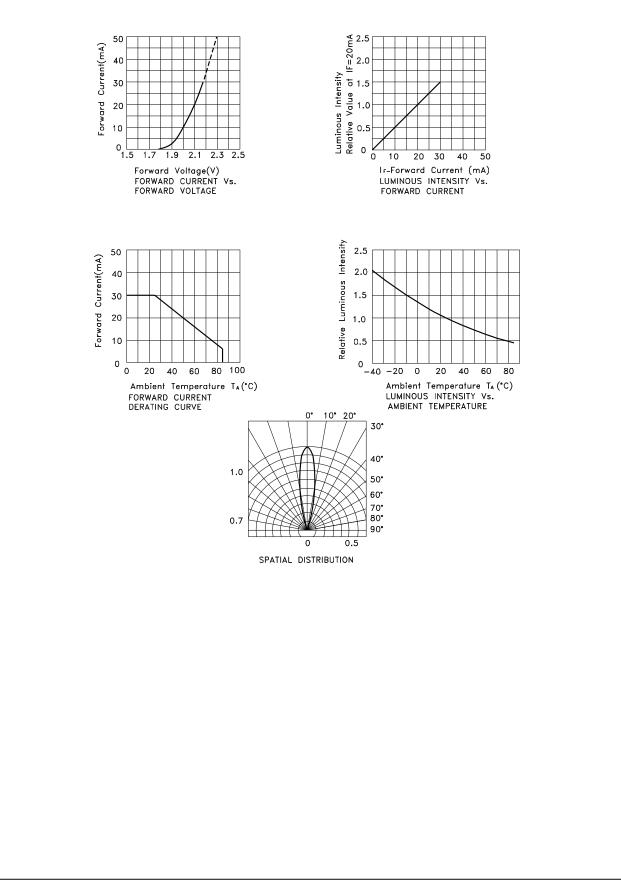
Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	per Red Green			
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.



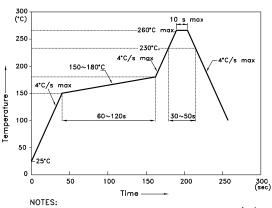
Green



APBD3224SURKCGKC-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.

Reflow Soldering Profile For Lead-free SMT Process.



NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.



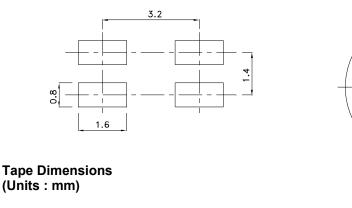
Reel Dimension

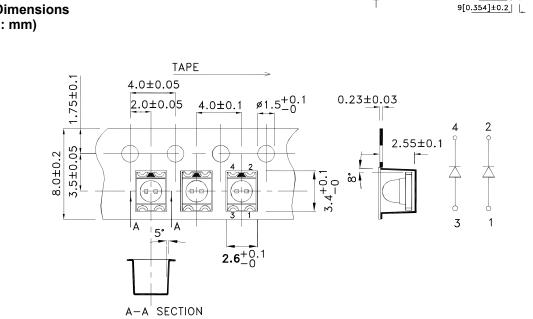
õ

R6.5[.256]±

Ŕ36[1

1<u>8[.7</u>09]±0.2



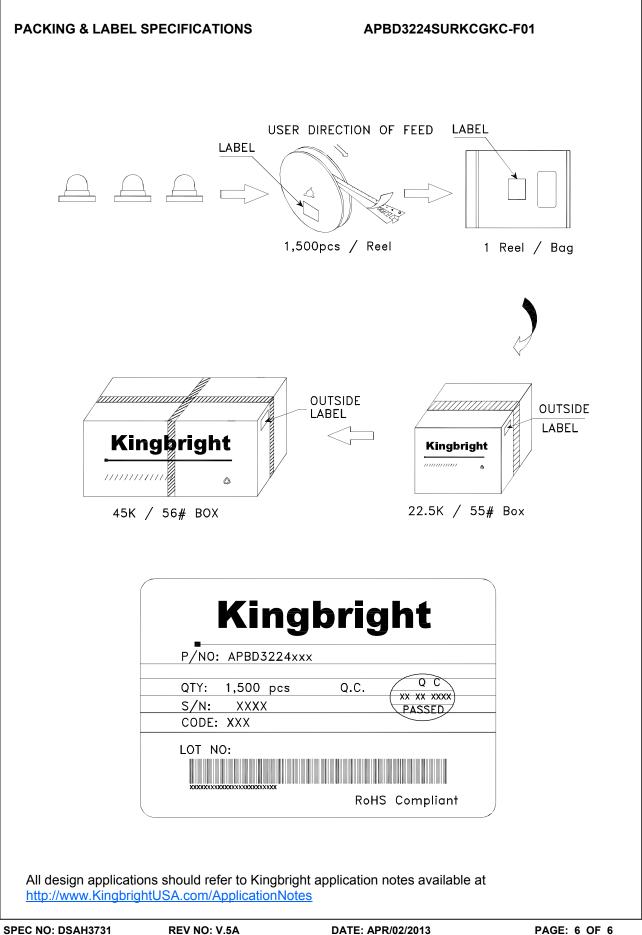


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12[0.472]±0.5

178[7.008]±1 ø60[2.362] ø56[2.205]



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