3.0mmx1.0mm RIGHT ANGLE SMD CHIP LED LAMP

Part Number: APBA3010SURKCGKC-GX

Hyper Red Green

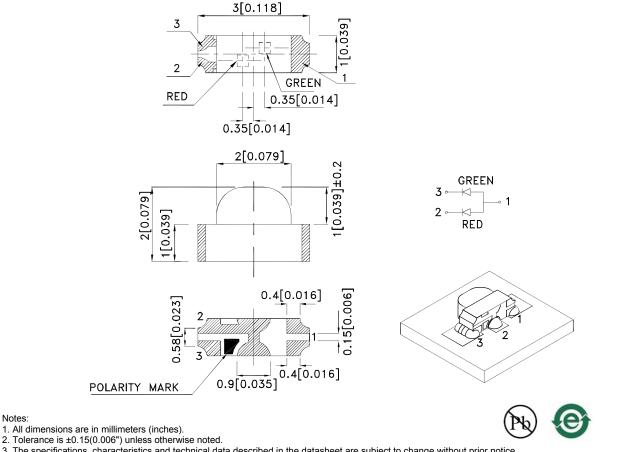
Features

- 3.0mmx1.0mm right angle SMT LED, 2.0mm 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.

Package Dimensions

Descriptions

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



The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAL3682 **APPROVED: WYNEC**

Notes:

REV NO: V.7A CHECKED: Allen Liu DATE: JAN/29/2015 **DRAWN: P.Cheng**

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Selection Guide Viewing lv (mcd) [2] @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 120 300 Hyper Red (AlGaInP) *40 *80 APBA3010SURKCGKC-GX Water Clear 140° 40 70 Green (AlGaInP) *40 *70

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:

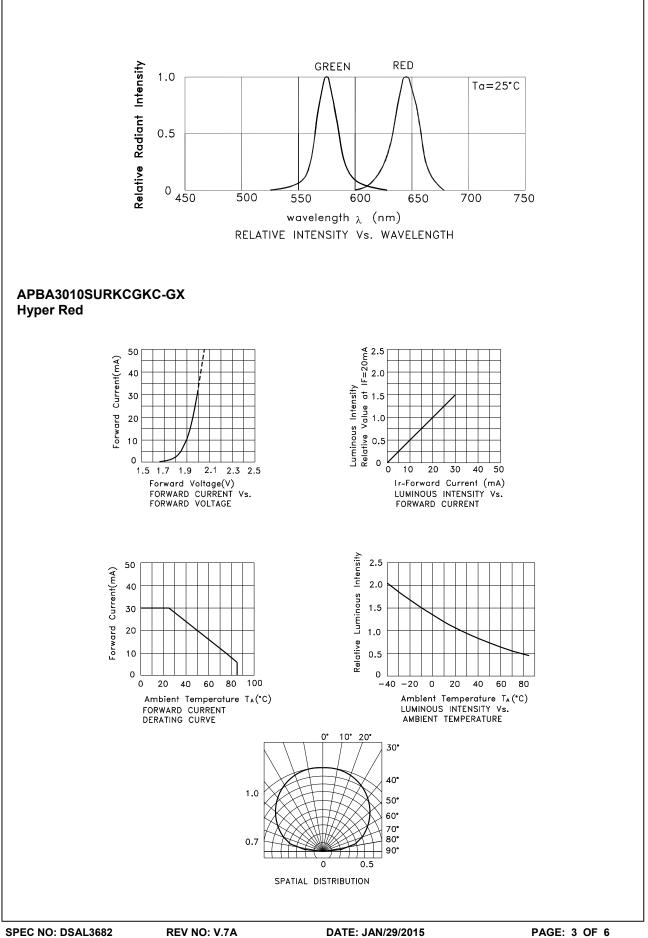
Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

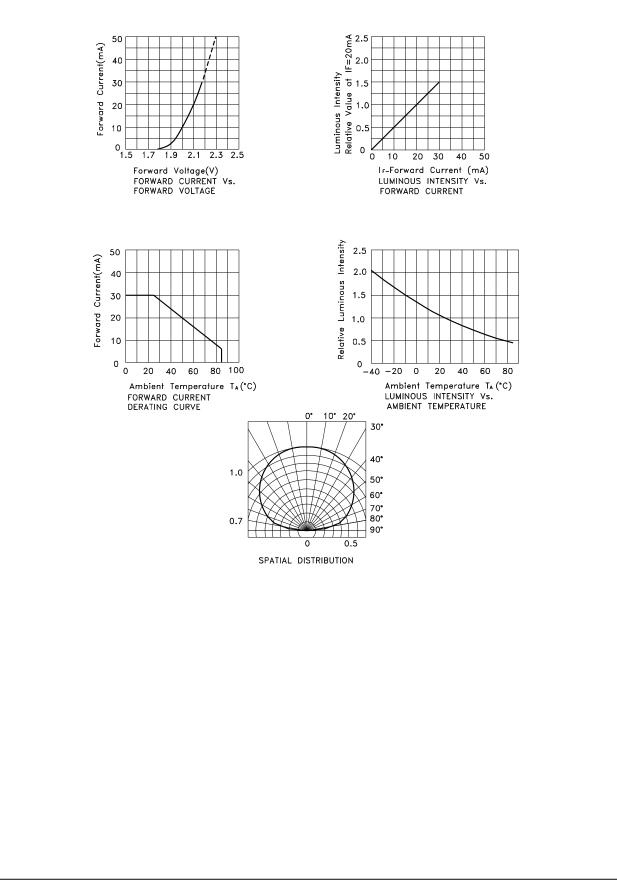
Absolute Maximum Ratings at TA=25°C

Parameter	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.



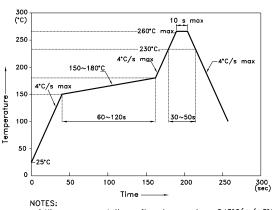
Green



APBA3010SURKCGKC-GX

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.

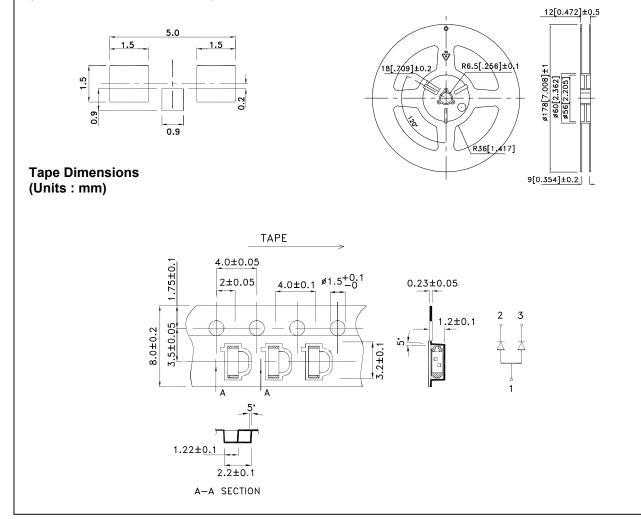
Reflow Soldering Profile For Lead-free SMT Process.



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.



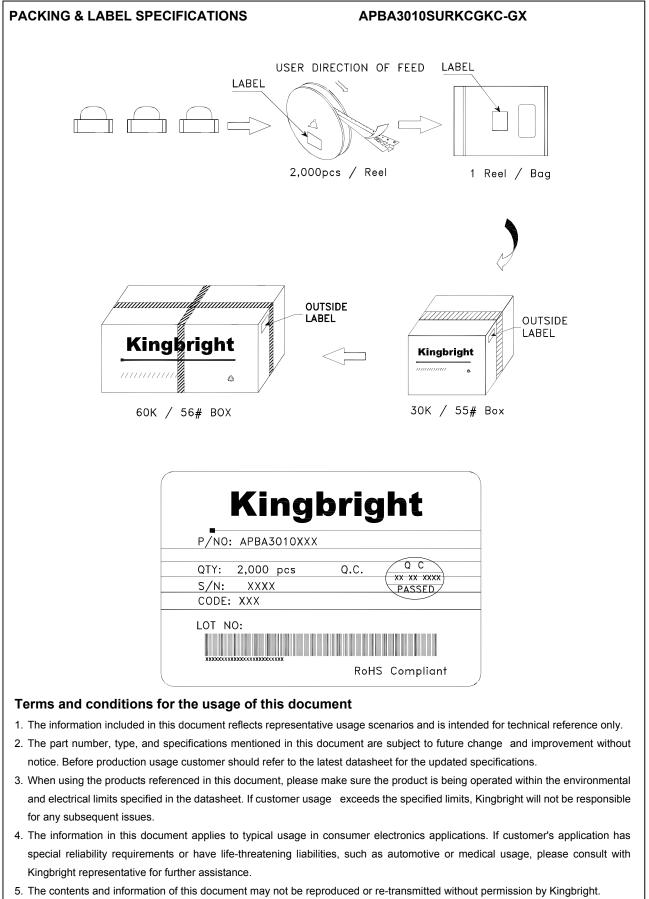
Reel Dimension



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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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