**Features** 

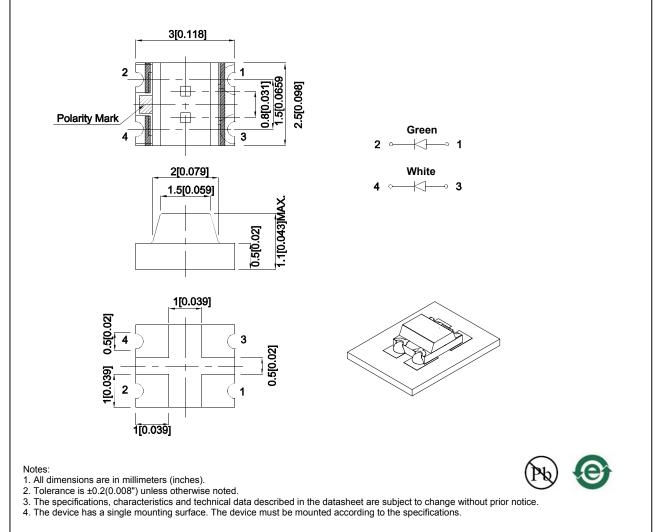


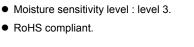
Part Number: APB3025CGKQWDF

Green White

#### Descriptions

- The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.
- The source color devices are made with InGaN Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.





• 3.0mmx2.5mm SMD LED, 1.1mm thickness.

• Bi -color,low power consumption.

• Ideal for backlight and indicator.

• Package : 2000pcs / reel.

· Wide viewing angle.

ATTENTION

OBSERVE PRECAUTIONS FOR HANDLING

ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

### Package Dimensions

REV NO: V.3B CHECKED: Allen Liu DATE: OCT/14/2015 DRAWN: L.Q.Xie PAGE: 1 OF 7 ERP: 1203011344

Selection Guide   Iv (mcd) [2]   Viewing     Part No.   Emitting Color (Material)   Lens Type   @ 20mA   Angle [1]								
			Min.	Тур.	201/2			
	Green (AlGaInP)		20	50	120°			
APB3025CGKQWDF	White (InGaN)	Yellow Fluorescent	200	380				

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%.

3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

#### Electrical / Optical Characteristics at TA=25°C [Green]

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

Notes:

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

#### Electrical / Optical Characteristics at TA=25°C [White]

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
VF [1]	Forward Voltage	White	3.3	4.0	V	IF=20mA
lr	Reverse Current	White		50	uA	VR = 5V
X [2]	Chromoticity Coordinates	White	0.31			
Y [2]	Chromaticity Coordinates		0.31			
С	Capacitance	White	100		pF	VF=0V;f=1MHz

Notes:

1. Forward Voltage: +/-0.1V.

2. Measurement tolerance of the chromaticity coordinates is  $\pm 0.01$ .

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

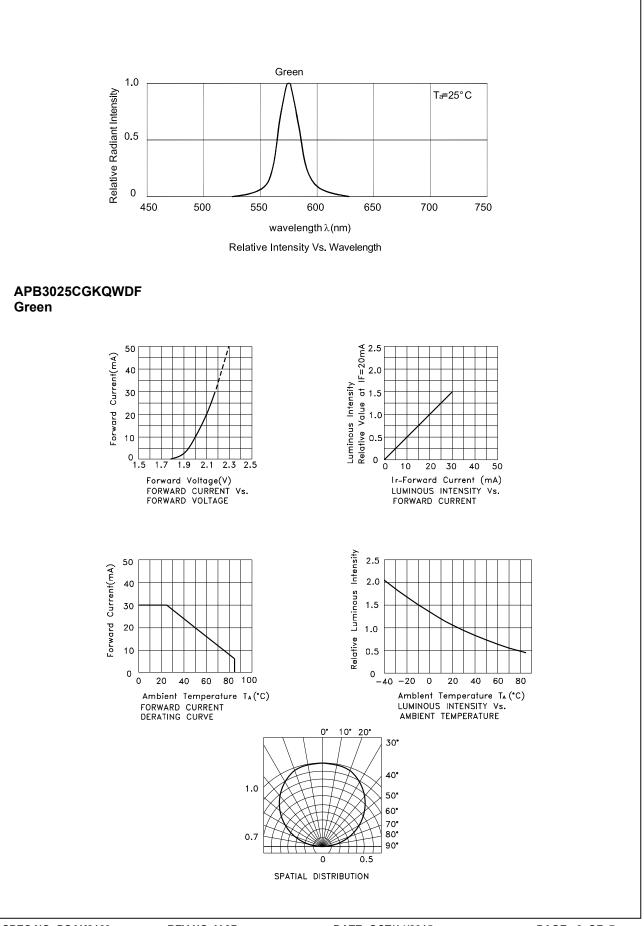
#### Absolute Maximum Ratings at TA=25°C

Parameter	Green	White	Units	
Power dissipation	75	120	mW	
DC Forward Current	30	30	mA	
Peak Forward Current [1]	150	150	mA	
Electrostatic Discharge Threshold (HBM)	3000	250	V	
Reverse Voltage		V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

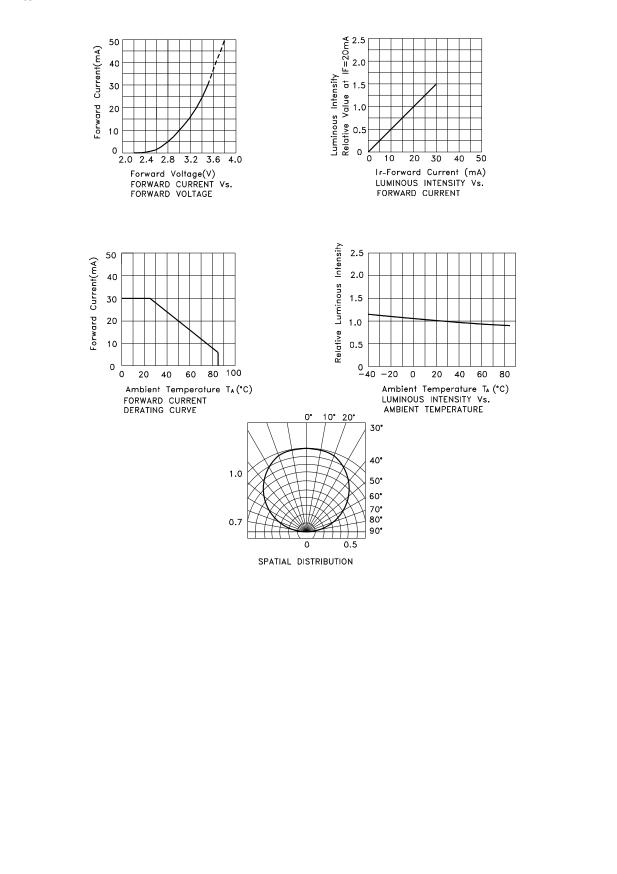
Note:

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

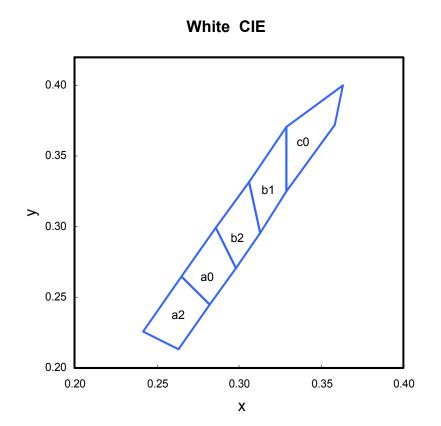
Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.



White



#### APB3025CGKQWDF



	х	у		x	у		х	У
	0.263	0.213		0.282	0.245		0.298	0.271
a2	0.282	0.245	a0	0.298	0.271	b2	0.313	0.296
az	0.265	0.265	au	0.286	0.299	02	0.306	0.332
	0.242	0.226		0.265	0.265		0.286	0.299
	0.313	0.296		0.329	0.325			
b1	0.329	0.325	c0	0.358	0.372			
2.	0.329	0.371		0.363	0.400			
	0.306	0.332		0.329	0.371			

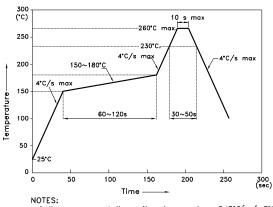
Notes:

Shipment may contain more than one chromaticity regions. Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is  $\pm 0.01$ .

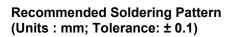
#### APB3025CGKQWDF

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.

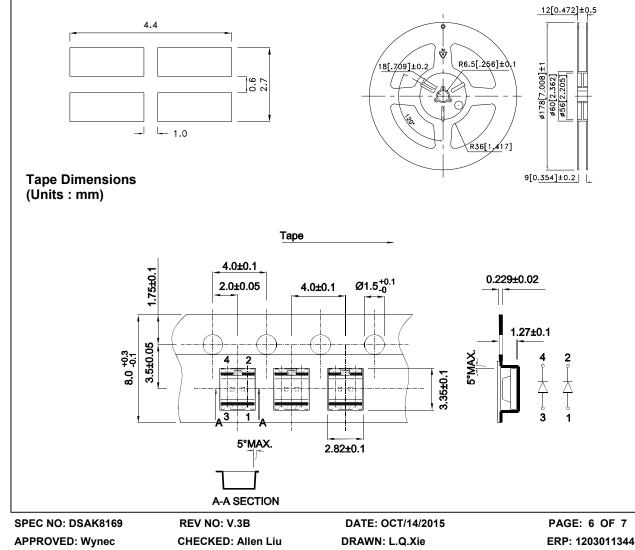
Reflow Soldering Profile For Lead-free SMT Process.

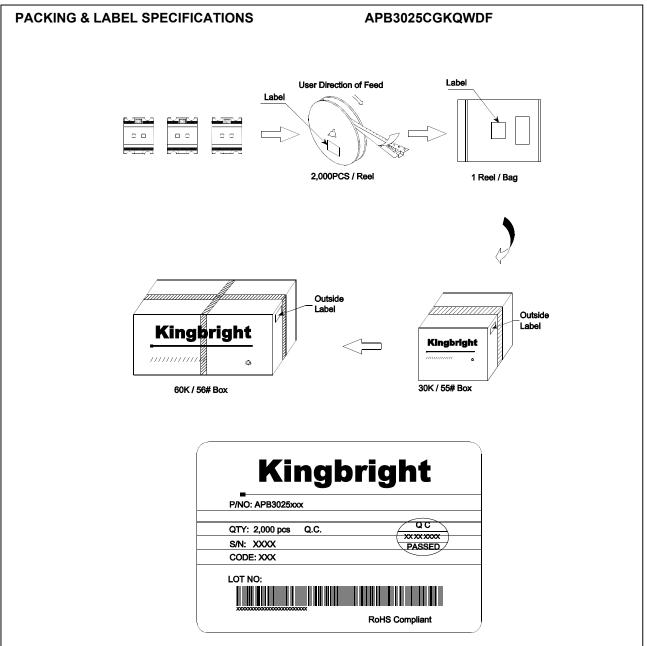


NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.









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