3.0x2.0mm RIGHT ANGLE SMD LED

Part Number: APBDA3020CGKSYKC-GX

Green Super Bright Yellow

Features

- 3.0mmx2.0mm SMT LED,2.8mm thickness.
- Low power consumption.
- Ideal for back light and indicator
- Package : 2000pcs / reel.
- When soldered in the sideview configuration, the maxi-

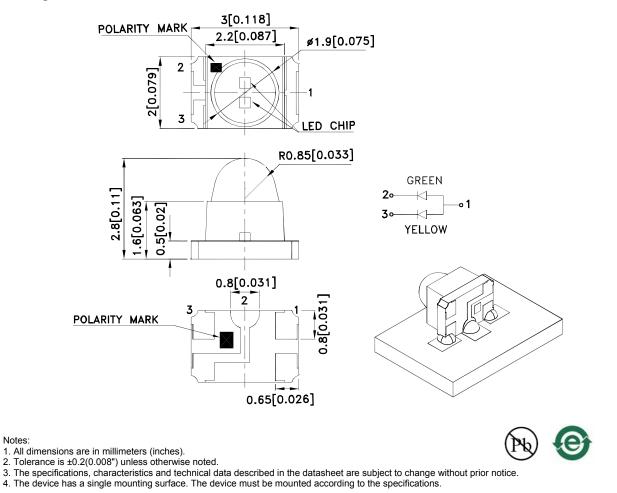
mum shear tolerance of the epoxy lens is 300g.

- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability
- RoHS compliant.

Descriptions

- The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.
- The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.





SPEC NO: DSAL0181 APPROVED: WYNEC REV NO: V.6B CHECKED: Allen Liu DATE: MAR/17/2015 DRAWN: P.Cheng PAGE: 1 OF 6 ERP: 1203012188

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APBDA3020CGKSYKC-GX	Green (AlGaInP)	Water Clear	120	280	- 15°
	Super Bright Yellow (AlGaInP)		400	700	

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.

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Green Super Bright Yellow	574 590		nm	I⊧=20mA	
λD [1]	Dominant Wavelength	Green Super Bright Yellow	570 590		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	Green Super Bright Yellow	20 20		nm	IF=20mA	
С	Capacitance	Green Super Bright Yellow	15 20		pF	0F VF=0V;f=1MHz	
VF [2]	Forward Voltage	Green Super Bright Yellow	2.1 2	2.5 2.5	V	IF=20mA	
lr	Reverse Current	Green Super Bright Yellow		10 10	uA	VR = 5V	

Electrical / Optical Characteristics at TA=25°C

Notes:

1. Wavelength: +/-1nm.

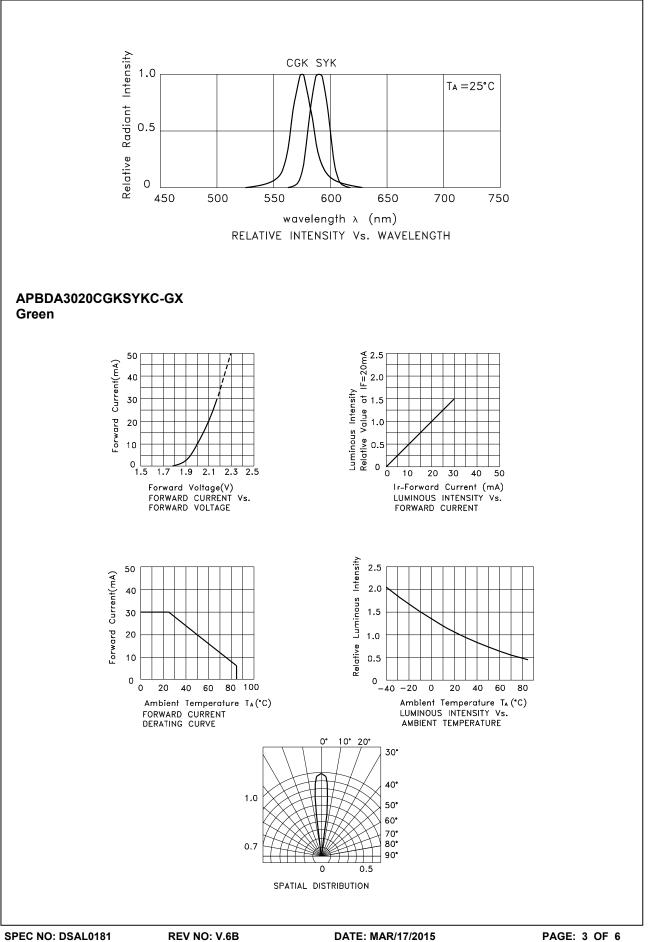
 Forward Voltage: +/-0.1V.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.
Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Parameter Green Super Bright Yellow Units mW Power dissipation 75 75 DC Forward Current 30 30 mΑ Peak Forward Current [1] 150 175 mΑ **Reverse Voltage** 5 V **Operating Temperature** -40°C To +85°C -40°C To +85°C Storage Temperature

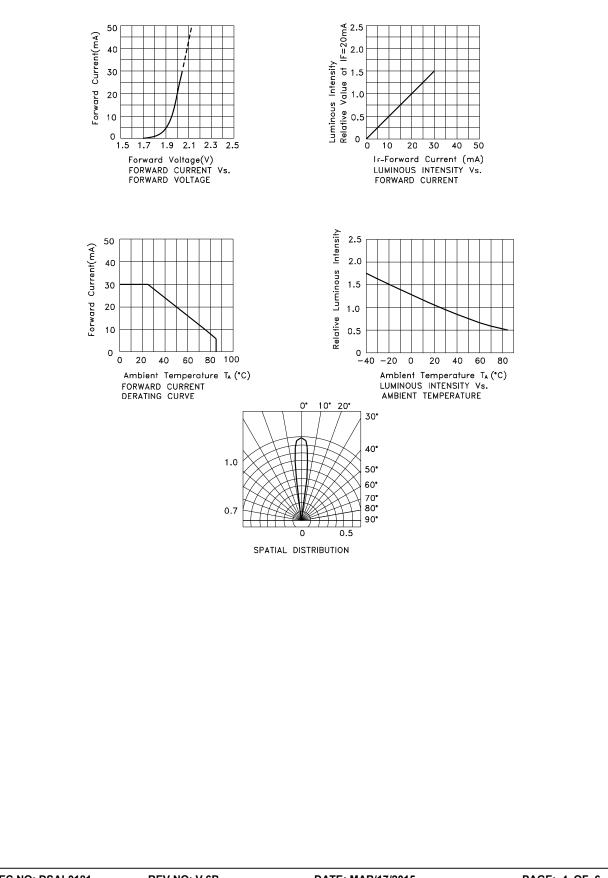
Absolute Maximum Ratings at TA=25°C

Note:

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



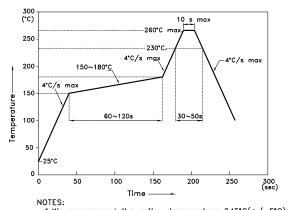
Super Bright Yellow



APBDA3020CGKSYKC-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.

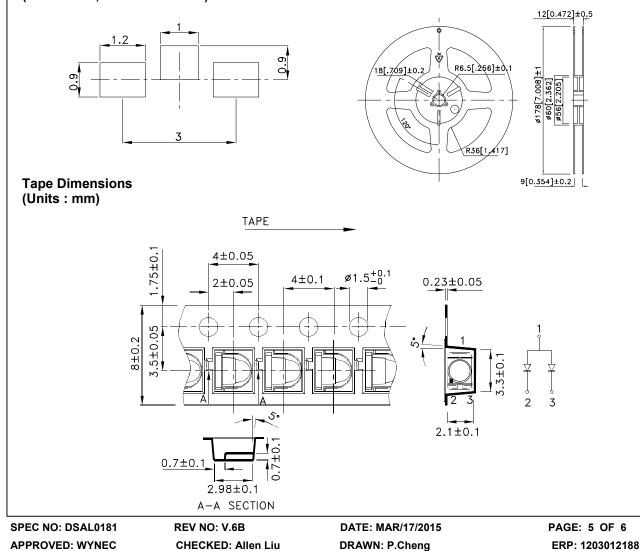
Reflow Soldering Profile For Lead-free SMT Process.

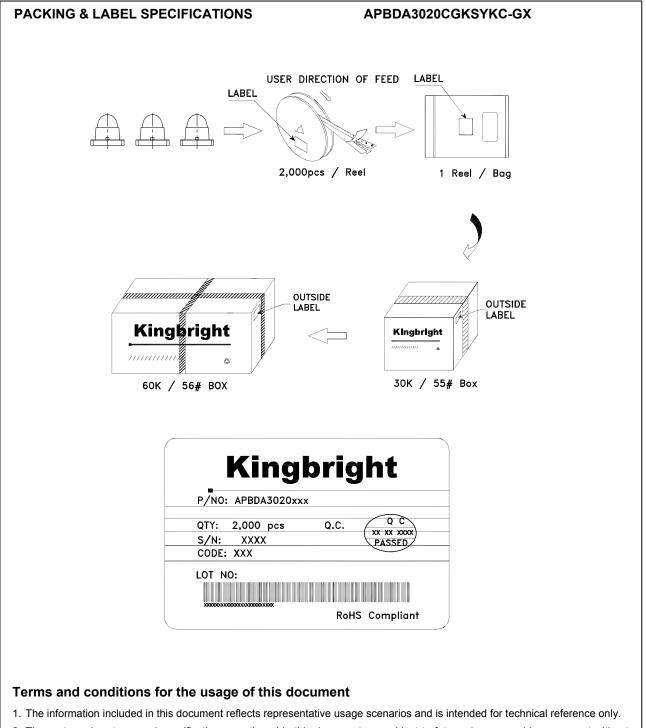


NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to bit temperature to high temperature. 3.Number of reflow process shall be 2 times or less.



Reel Dimension





- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
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