

1.6x0.6mm RIGHT ANGLE SMD CHIP LED **LAMP**

Part Number: APA1606SGC

Super Bright Green

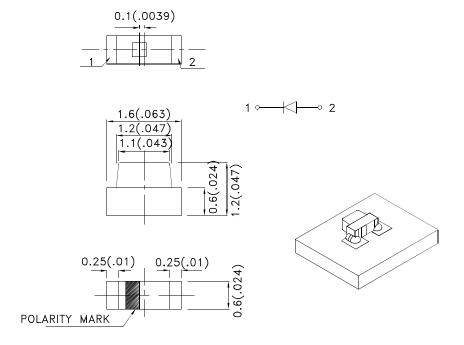
Features

- 1.6mmx1.2mmx0.6mm right angle SMD LED,0.6mm 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.

Description

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



Notes:

- All dimensions are in millimeters (inches).
 Tolerance is ±0.1(0.004") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

 4. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAB6283 **REV NO: V.13B DATE: AUG/02/2016** PAGE: 1 OF 5 APPROVED: Wynec **CHECKED: Allen Liu** DRAWN: L.T.Zhang ERP: 1203000472



Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,,	Min.	Тур.	201/2
APA1606SGC Super Bright Green (GaP)		Water Clear 5		12	110°

- 1. θ 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%. 3. Luminous intensity value is traceable to CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

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Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions		
λpeak	Peak Wavelength	Super Bright Green	565		nm	IF=20mA		
λD [1]	Dominant Wavelength	Super Bright Green	568		nm	IF=20mA		
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	IF=20mA		
С	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz		
VF [2]	Forward Voltage	Super Bright Green	2.2	2.5	V	IF=20mA		
lr	Reverse Current	Super Bright Green		10	uA	VR=5V		

Notes:

- 1. Wavelength: + / -1nm.
- 2. Forward Voltage: + / -0.1V.
- 3. Wavelength value is traceable to CIE127-2007 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

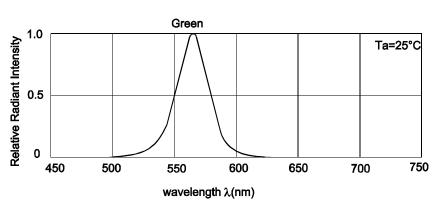
Absolute maximum Natings at TA-23 C					
Parameter	Values				
Power dissipation	62.5	mW			
DC Forward Current	25	mA			
Peak Forward Current [1]	140	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Notes:

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

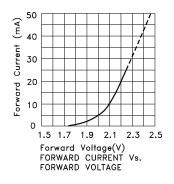
SPEC NO: DSAB6283 **REV NO: V.13B** DATE: AUG/02/2016 PAGE: 2 OF 5 **APPROVED: Wynec CHECKED: Allen Liu** DRAWN: L.T.Zhang ERP: 1203000472

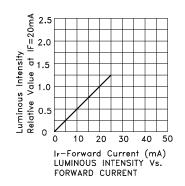
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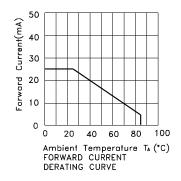


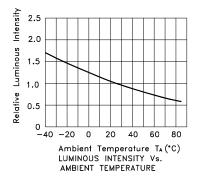
Relative Intensity Vs. Wavelength

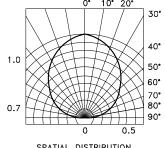
Super Bright Green APA1606SGC











SPATIAL DISTRIBUTION

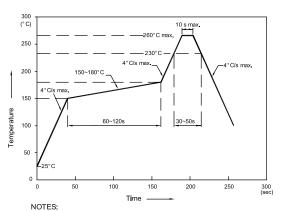
SPEC NO: DSAB6283 **REV NO: V.13B** DATE: AUG/02/2016 PAGE: 3 OF 5 APPROVED: Wynec **CHECKED: Allen Liu** DRAWN: L.T.Zhang ERP: 1203000472

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APA1606SGC

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.

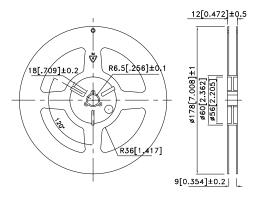


- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed to high temperature
- to high temperature.
 3.Number of reflow process shall be 2 times or less.

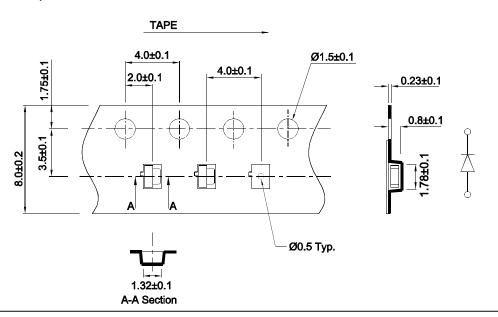
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

0.9 0.9

Reel Dimension



Tape Dimensions (Units : mm)

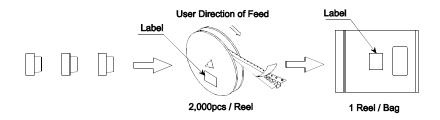


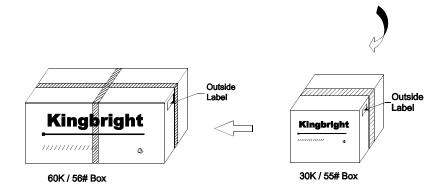
SPEC NO: DSAB6283 APPROVED: Wynec REV NO: V.13B CHECKED: Allen Liu DATE: AUG/02/2016 DRAWN: L.T.Zhang PAGE: 4 OF 5 ERP: 1203000472

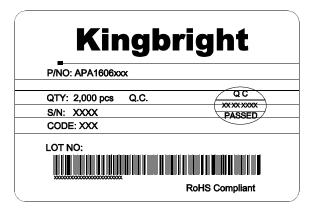
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PACKING & LABEL SPECIFICATIONS

APA1606SGC







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 SPEC NO: DSAB6283
 REV NO: V.13B
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 PAGE: 5 OF 5

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