

## 3.5x2.8mm SURFACE MOUNT LED LAMP

Part Number: AA3528AZGC

Green



**ATTENTION** OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE

**DEVICES** 

### **Features**

- Single color.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package: 1500pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

### Description

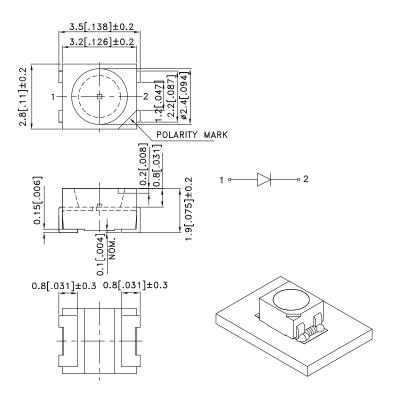
The Green source color devices are made with InGaN on Sapphire Light Emitting Diode.

Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

## **Package Dimensions**



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- Specifications are subject to change without notice.
   The device has a single mounting surface. The device must be mounted according to the specifications.





SPEC NO: DSAH4233 **REV NO: V.4** DATE: MAR/30/2009 PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Ting.Li ERP: 1201003990

## **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
AA3528AZGC	Green (InGaN)	WATER CLEAR	380	600	120°

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

## Electrical / Optical Characteristics at TA=25°C

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Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Green	515		nm	IF=20mA	
λD [1]	Dominant Wavelength	Green	525		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	Green	30		nm	IF=20mA	
С	Capacitance	Green	45		pF	V <sub>F</sub> =0V;f=1MHz	
VF [2]	Forward Voltage	Green	3.3	4.1	V	IF=20mA	
lr	Reverse Current	Green		10	uA	V <sub>R</sub> =5V	

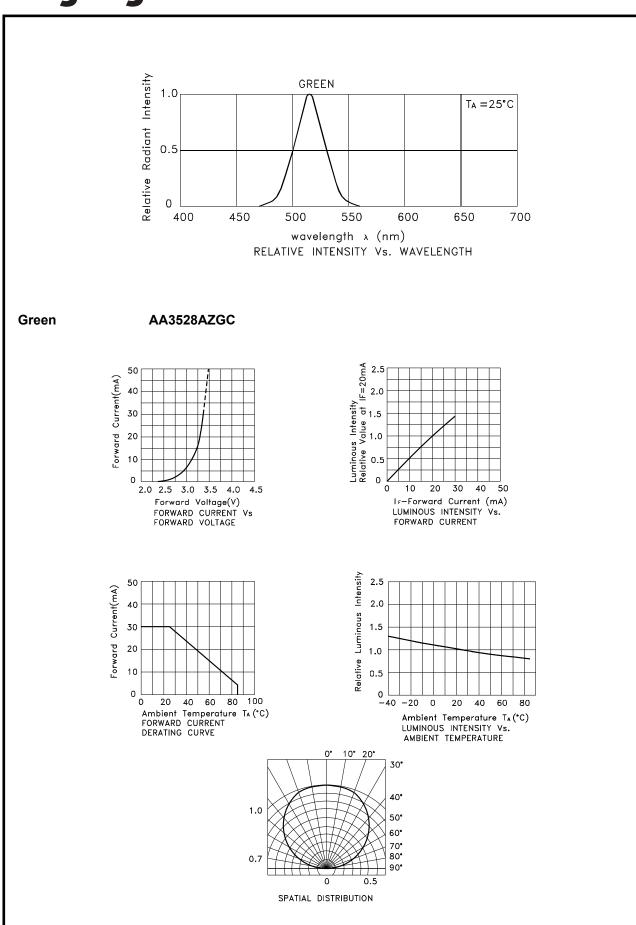
- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.

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

Parameter	Green	Units	
Power dissipation	123	mW	
DC Forward Current	30		
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	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.

SPEC NO: DSAH4233 **REV NO: V.4** DATE: MAR/30/2009 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Ting.Li ERP: 1201003990



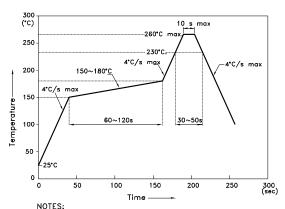
 SPEC NO: DSAH4233
 REV NO: V.4
 DATE: MAR/30/2009
 PAGE: 3 OF 5

 APPROVED: WYNEC
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### AA3528AZGC

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.



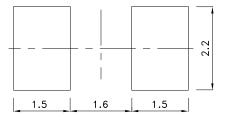
- NOTES:

  1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

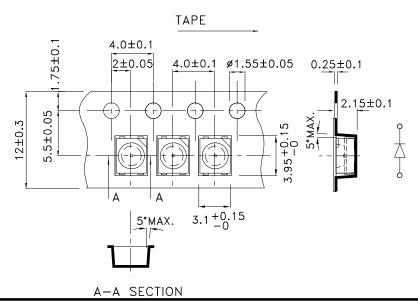
  2.Don't cause stress to the epoxy resin while it is exposed to high temperature. to high temperature.

  3.Number of reflow process shall be 2 times or less.

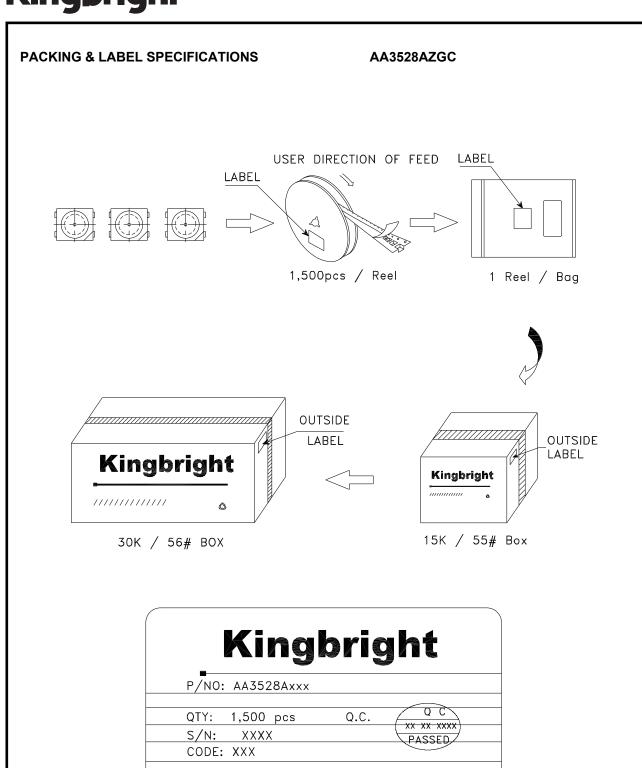
**Recommended Soldering Pattern** (Units: mm; Tolerance: ± 0.1)



## **Tape Dimensions** (Units: mm)



SPEC NO: DSAH4233 **REV NO: V.4** DATE: MAR/30/2009 PAGE: 4 OF 5 **APPROVED: WYNEC CHECKED: Allen Liu** DRAWN: Ting.Li ERP: 1201003990



SPEC NO: DSAH4233 APPROVED: WYNEC REV NO: V.4 CHECKED: Allen Liu

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RoHS Compliant

PAGE: 5 OF 5 ERP: 1201003990