

#### 3.5x2.8 mm SMD CHIP LED LAMP

AA3528SGC SUPER BRIGHT GREEN

### **Features**

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE: 1500PCS / REEL.
- RoHS COMPLIANT.

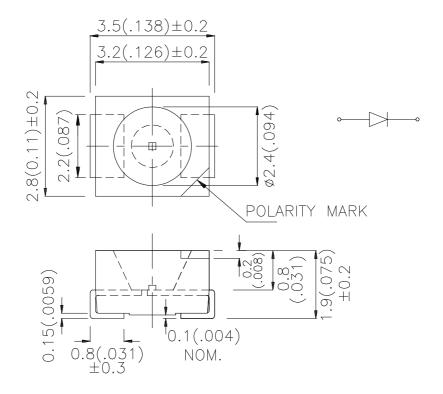
## **Description**

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

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ERP: 1201000371

# **Package Dimensions**



#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- 3. Specifications are subject to change without notice.

SPEC NO: DSAB0787 REV NO: V.8 DATE: MAR/21/2005
APPROVED: J. Lu CHECKED: Allen Liu DRAWN: W.J.ZHU

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### **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	2 θ 1/2
AA3528SGC	SUPER BRIGHT GREEN (GaP)	WATER CLEAR	10	25	120°

Note:

# Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	IF=20mA
λD	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	Forward Voltage	Super Bright Green	2.2	2.5	V	IF=20mA
IR	Reverse Current	Super Bright Green		10	uA	VR= 5V

# Absolute Maximum Ratings at Ta=25°C

Parameter	Super Bright Green	
Power dissipation	62.5	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

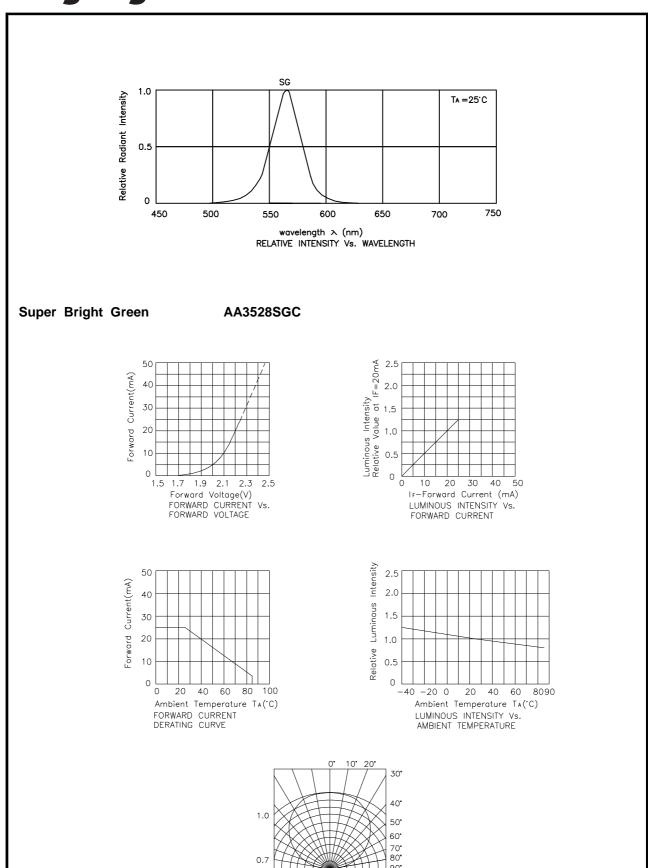
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<sup>1.</sup>  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

<sup>1. 1/10</sup> Duty Cycle, 0.1ms Pulse Width.

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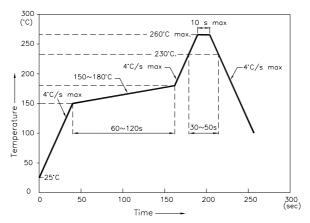
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### AA3528SGC

Reflow Soldering Profile For Lead-free SMT Process.

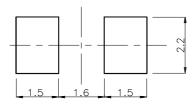


#### NOTES:

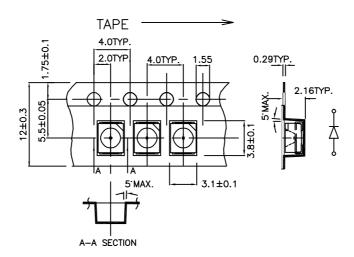
- 3. I.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
  2.Don't cause stress to the epoxy resin while it is exposed
- to high temperature.

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

# Recommended Soldering Pattern (Units: mm)



# Tape Specifications (Units: mm)



#### Pamarke.

If special sorting is required (e.g. binning based on forward voltage,luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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