4.0x4.0mm RIGHT ANGLE SURFACE MOUNT LED LAMP

Part Number: AA4040SGC Super Bright Green

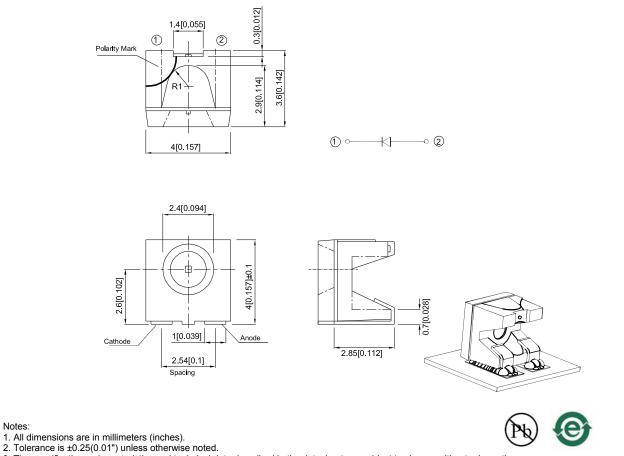
Features

- Single color.
- Suitable for all SMD assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package : 500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

Package Dimensions



The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAA4908 **APPROVED: Wynec**

Notes:

REV NO: V.14B **CHECKED: Allen Liu**

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Selection Guide

Ocicotion Oulde					
Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AA4040SGC	Super Bright Green (GaP)	Water Clear	12	30	120°

Notes:

01/2 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 CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

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

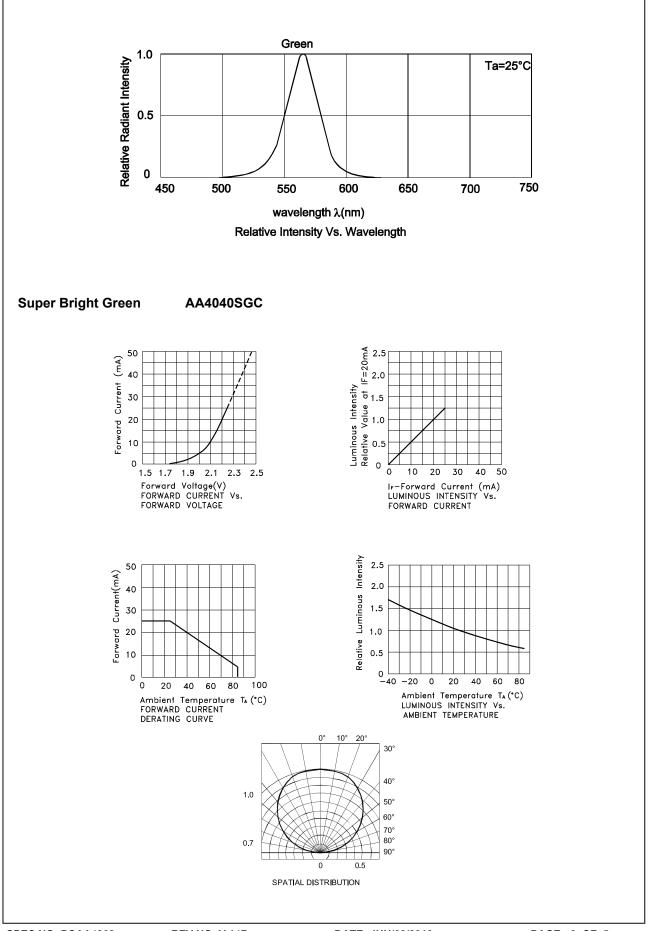
Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
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		

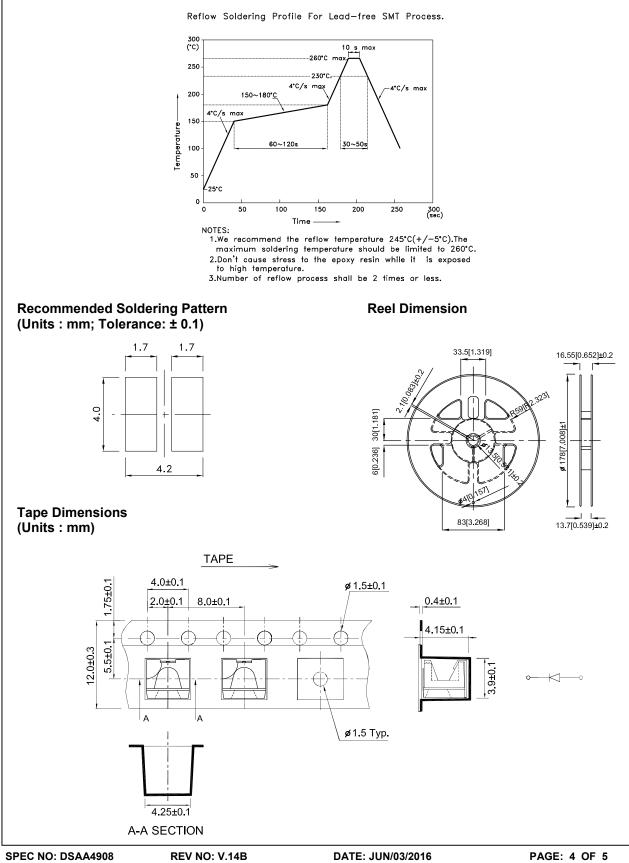
Notes:

1.1/10 Duty Cycle, 0.1ms Pulse Width.
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.



AA4040SGC

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.

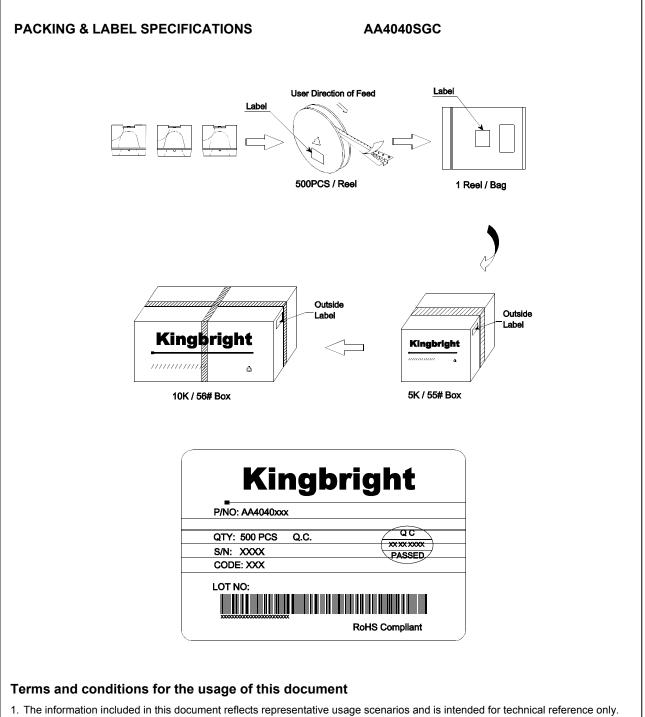


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- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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