### SUBMINIATURE SOLID STATE LAMP

Part Number: AM27SGC09

Super Bright Green

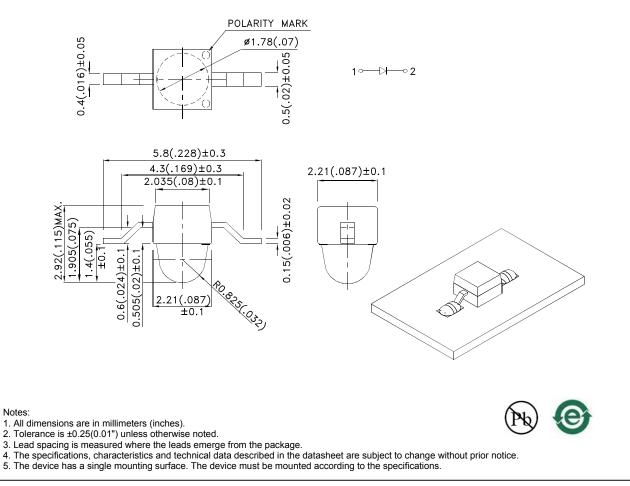
#### Features

- Subminiature package.
- Z-Bend lead.
- Long life solid state reliability.
- Low package profile.
- Package :1000pcs / 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**



SPEC NO: DSAB9348 APPROVED: WYNEC REV NO: V.8 CHECKED: Allen Liu DATE: APR/14/2011 DRAWN: J.Yu PAGE: 1 OF 5 ERP: 1202000350

#### Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AM27SGC09	Super Bright Green (GaP)	Water Clear	50	100	20°

Notes:

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

### 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 [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:

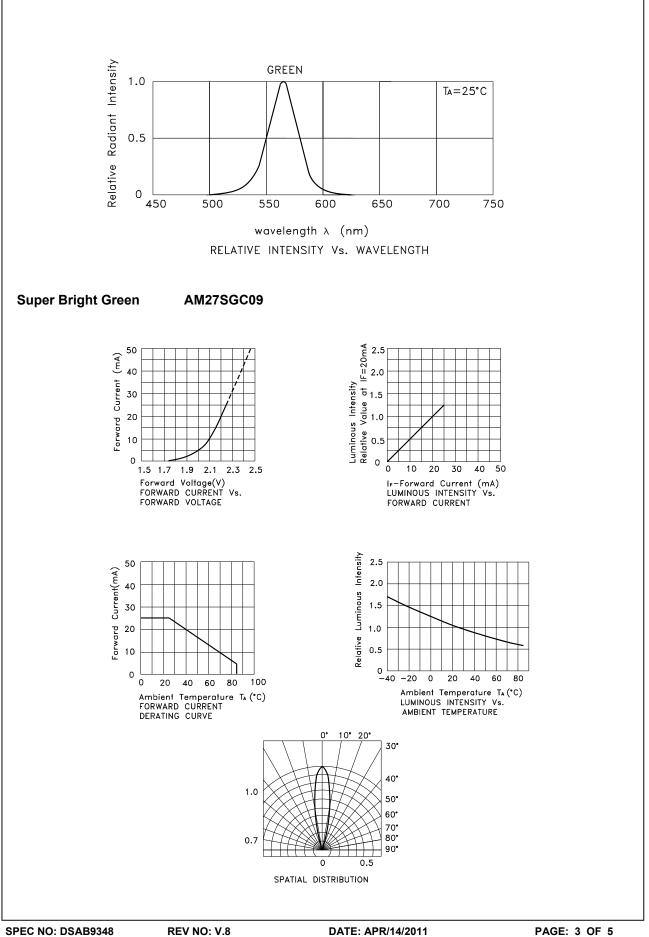
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

Parameter	Super Bright Green	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		

Note:

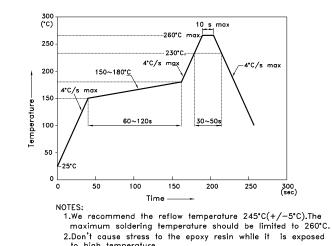
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



### AM27SGC09

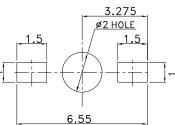
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



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

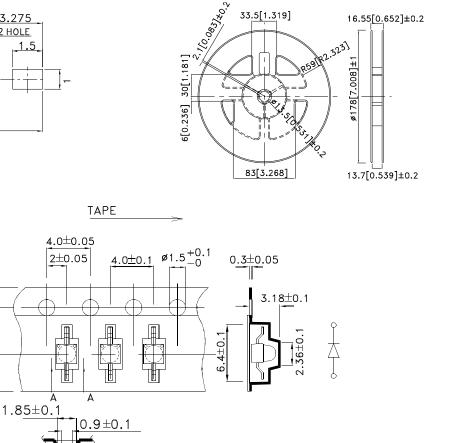
**Recommended Soldering Pattern** (Units : mm; Tolerance: ± 0.1)



.75±0.1

.05 5.5±0. 12±0.2

**Reel Dimension** 



**Tape Dimensions** (Units : mm)

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A-A SECTION

DATE: APR/14/2011 DRAWN: J.Yu

PAGE: 4 OF 5 ERP: 1202000350

