

AM27SGC09-AT SUPERBRIGHTGREEN

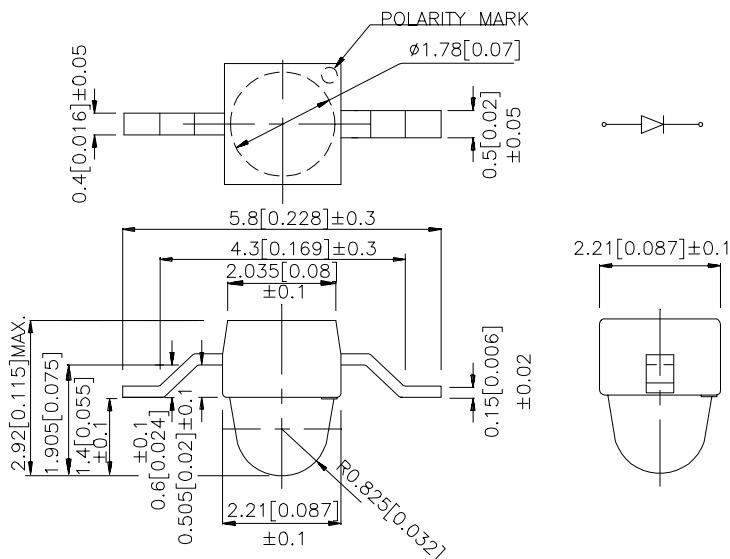
### Features

- SUBMINIATURE PACKAGE.
- WIDEVIEWING ANGLE.
- Z-BEND LEAD.
- LONGLIFE-SOLID STATE RELIABILITY.
- LOWPACKAGE PROFILE.
- PACKAGE : 1000PCS / REEL.

### Description

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

### Package Dimensions



#### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

## Selection Guide

Part No.	Dice	Lens Type	I <sub>V</sub> (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
AM27SGC09-AT	SUPER BRIGHTGREEN (GaP)	WATER CLEAR	40	100	20°/2

Note:

1. 0°/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

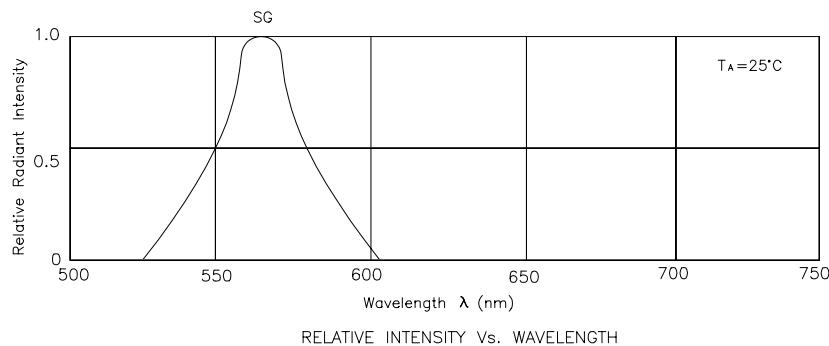
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Super Bright Green	565		nm	IF=20mA
λ D	Dominate Wavelength	Super Bright Green	568		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Super Bright Green	30		nm	IF=20mA
C	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Super Bright Green	2.2	2.5	V	IF=20mA
I <sub>R</sub>	Reverse Current	Super Bright Green		10	uA	VR = 5V

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

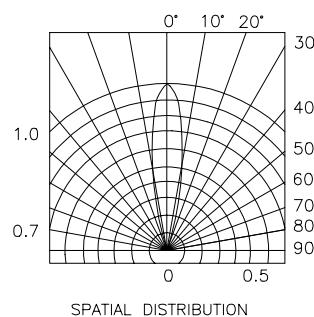
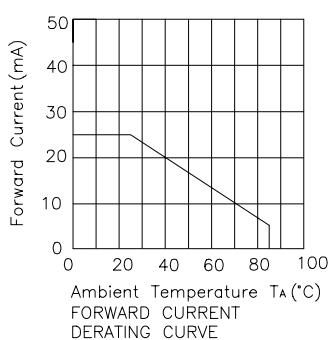
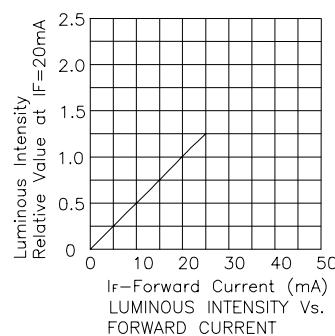
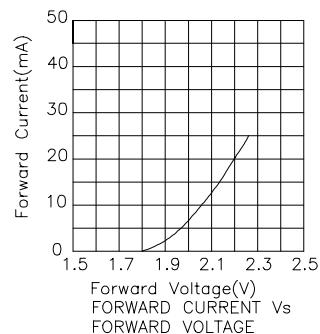
Parameter	Super Bright Green	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

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

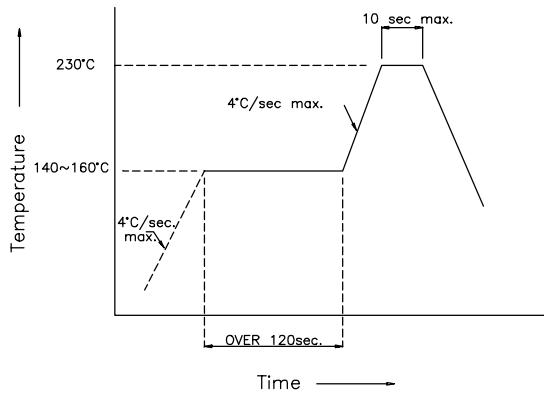


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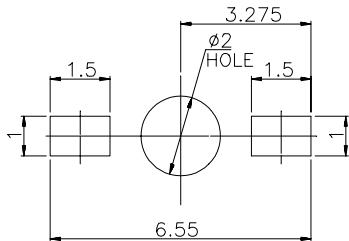


## AM27SGC09-AT SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



### Recommended Soldering Pattern (Units : mm)



### Tape Specifications (Units : mm)

