

AM27SGD09

SUPER BRIGHT GREEN

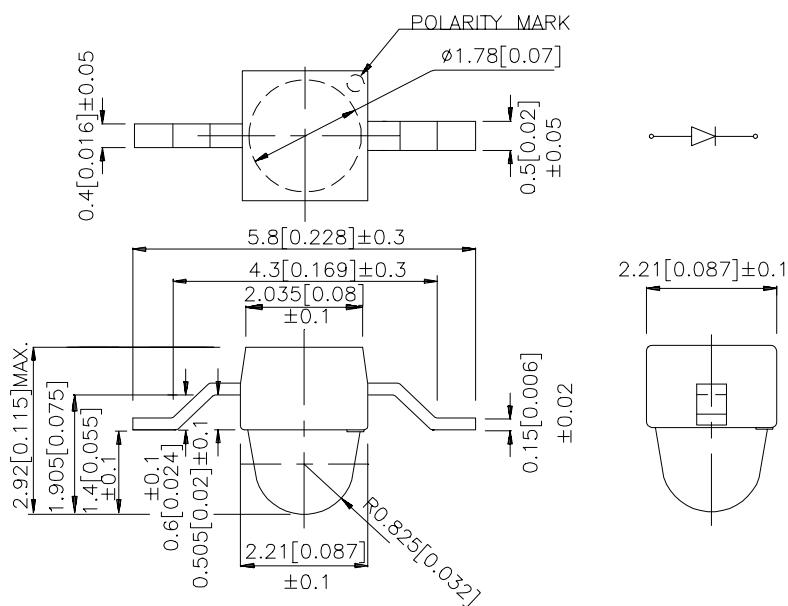
Features

- SUBMINIATURE PACKAGE.
- WIDE VIEWING ANGLE.
- Z-BEND LEAD.
- LONG LIFE - SOLID STATE RELIABILITY.
- LOW PACKAGE 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 ±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 _V (mcd) @ 20 mA | | Viewing Angle |
|-----------|--------------------------|----------------|------------------------------|------|---------------|
| | | | Min. | Typ. | |
| AM27SGD09 | SUPER BRIGHT GREEN (GaP) | GREEN DIFFUSED | 2.6 | 10 | 40° |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

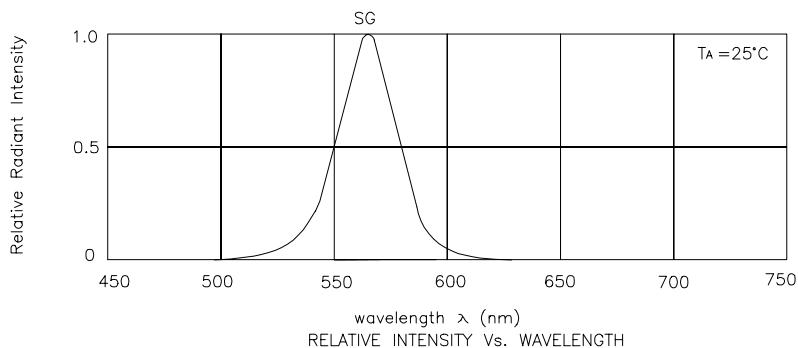
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|----------------|--------------------------|--------------------|------|------|-------|---------------------------|
| λpeak | Peak Wavelength | Super Bright Green | 565 | | nm | I _F =20mA |
| λ D | Dominate Wavelength | Super Bright Green | 568 | | nm | I _F =20mA |
| Δλ1/2 | Spectral Line Half-width | Super Bright Green | 30 | | nm | I _F =20mA |
| C | Capacitance | Super Bright Green | 15 | | pF | V _F =0V;f=1MHz |
| V _F | Forward Voltage | Super Bright Green | 2.2 | 2.5 | V | I _F =20mA |
| I _R | Reverse Current | Super Bright Green | | 10 | uA | V _R = 5V |

Absolute Maximum Ratings at T_A=25°C

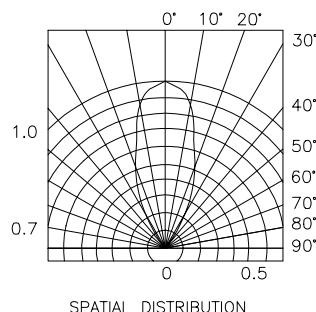
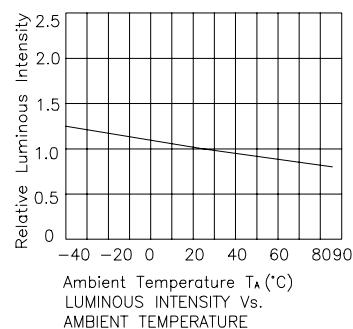
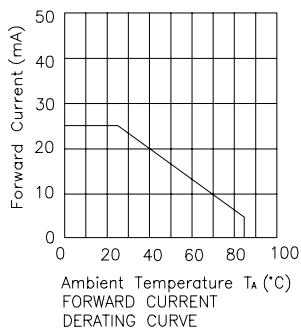
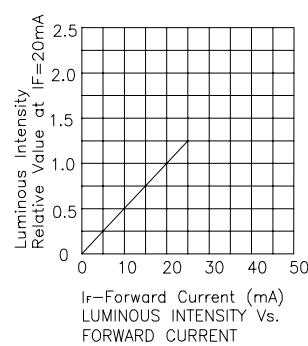
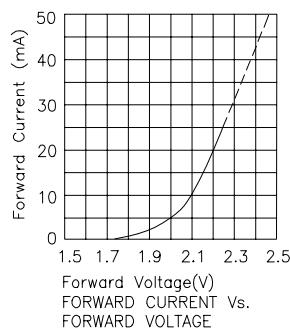
| Parameter | Super Bright Green | Units |
|-------------------------------|--------------------|-------|
| Power dissipation | 105 | mW |
| DC Forward Current | 25 | mA |
| Peak Forward Current [1] | 140 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |

Note:

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

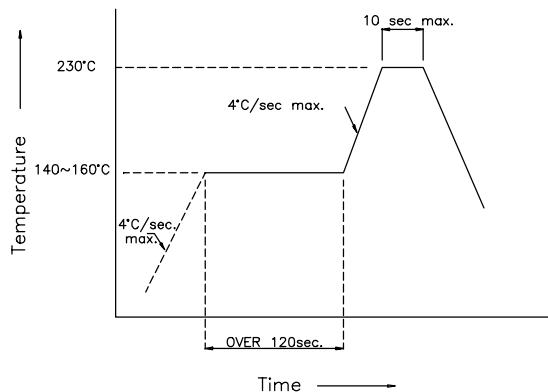


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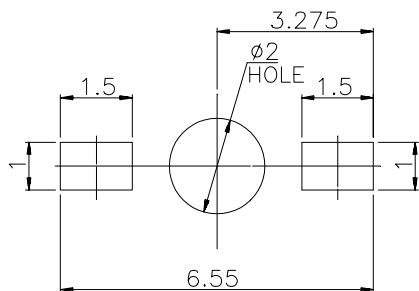


AM27SGD09 SMT Reflow Soldering Instructions

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)

