SUBMINIATURE SOLID STATE LAMP

Part Number: AM2520SGC09 Super Bright Green

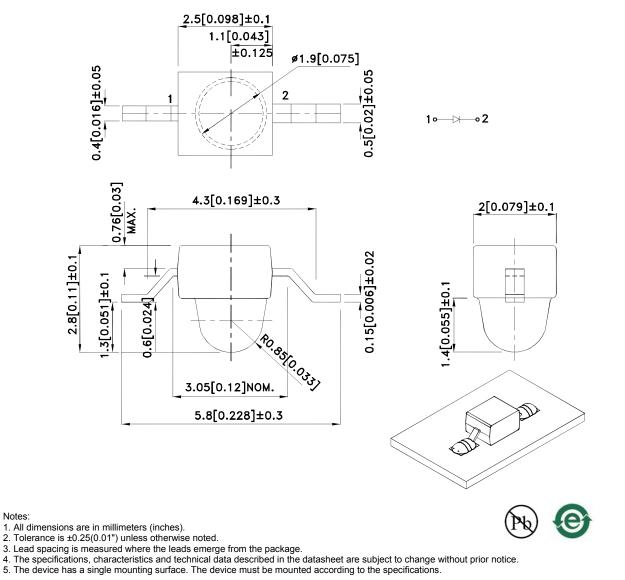
Features

- Subminiature package.
- Z-bend lead.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Package : 1000pcs / reel.
- RoHS compliant.

Package Dimensions

Description

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



SPEC NO: DSAD1290 APPROVED: WYNEC REV NO: V.12B CHECKED: Allen Liu DATE: MAR/18/2015 DRAWN: P.Cheng PAGE: 1 OF 5 ERP: 1202000634

Selection Guide

| Part No. | Dice | Lens Type | lv (mo @ 20 | / - - | Viewing Angle [1] |
|-------------|--------------------------|-------------|----------------|--------------|----------------------|
| | | | Min. | Тур. | 201/2 |
| AM2520SGC09 | Super Bright Green (GaP) | Water Clear | 40 | 90 | 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%.

3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

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 | I⊧=20mA |
| lr | Reverse Current | Super Bright Green | | 10 | uA | VR=5V |

Notes:

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

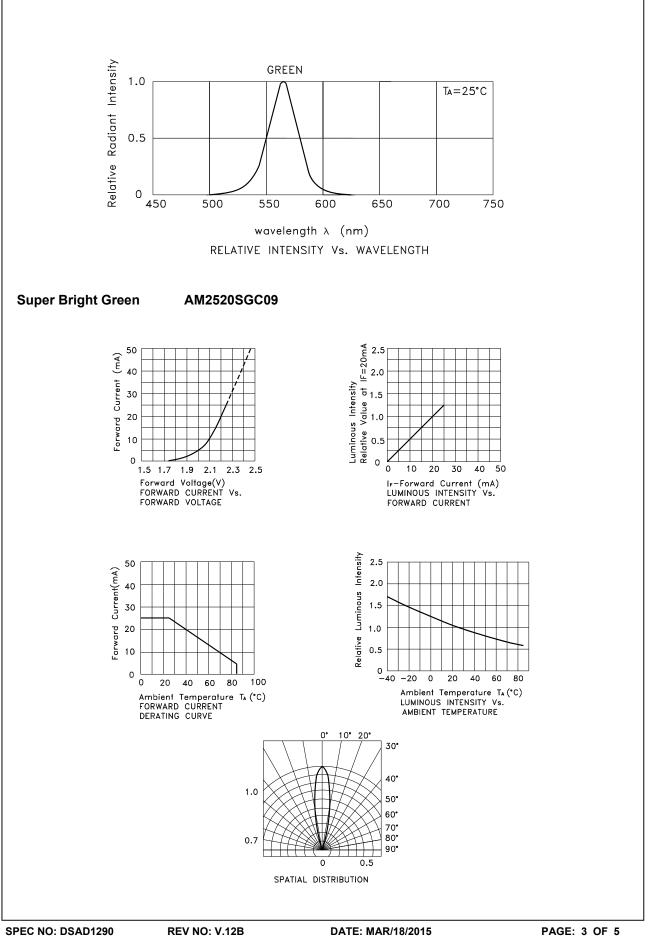
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

4. 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 | 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 | | |

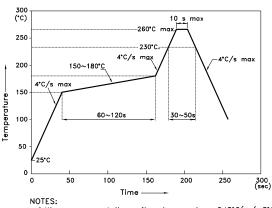
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.



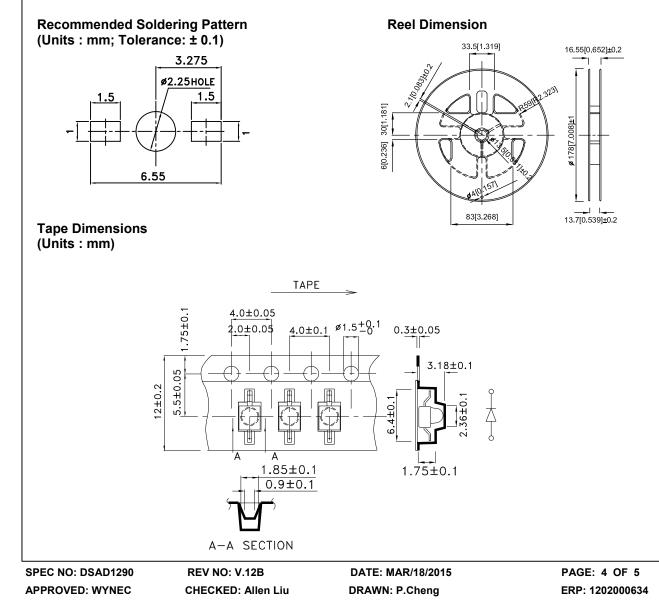
AM2520SGC09

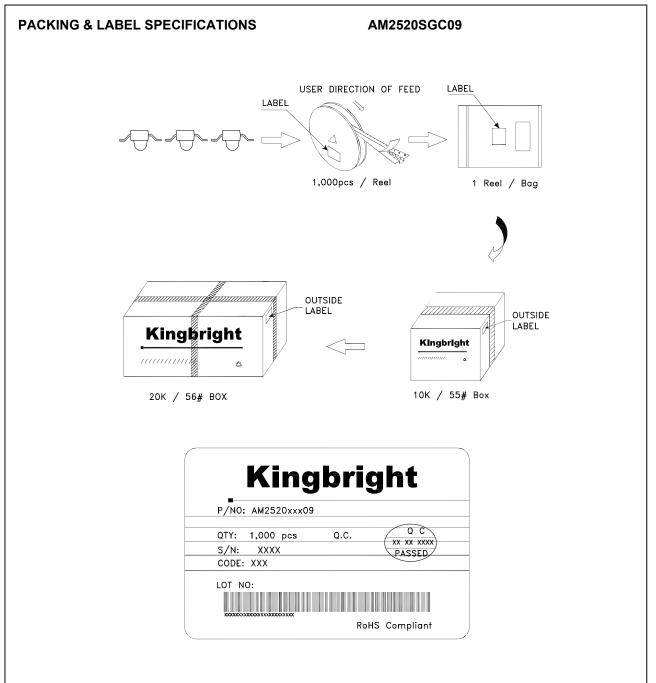
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



NOTES: 1.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.





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