SOT-23 SURFACE MOUNT LED LAMP

Part Number: AM23SGD3-F

Super Bright Green

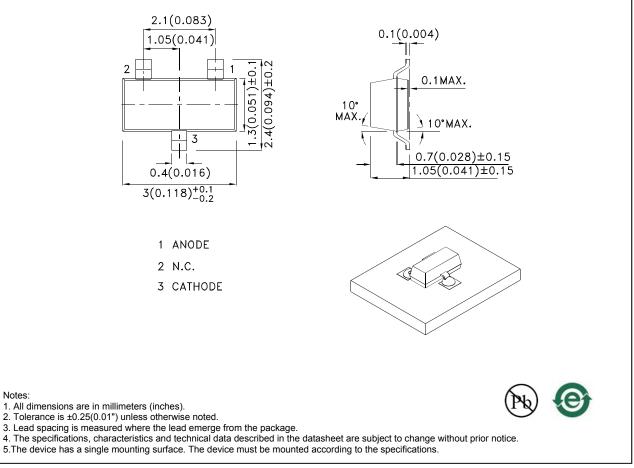
Features

- SOT-23 package surface mount LED lamp.
- Low power consumption.
- Long life solid state reliability.
- Package: 2000pcs / 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: DSAM4276 APPROVED: WYNEC REV NO: V.2B CHECKED: Allen Liu DATE: JUN/27/2012 DRAWN: F.Cui PAGE: 1 OF 5 ERP: 1202002789

Selection Guide

| Selection Guide | | | | | |
|-----------------|--------------------------|----------------|------------------------|------|----------------------|
| Part No. | Dice | Lens Type | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
| | | | Min. | Тур. | 201/2 |
| AM23SGD3-F | Super Bright Green (GaP) | Green Diffused | 3 | 8 | 140° |

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%.
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 | 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 |
| IR | Reverse Current | Super Bright Green | | 10 | uA | VR=5V |

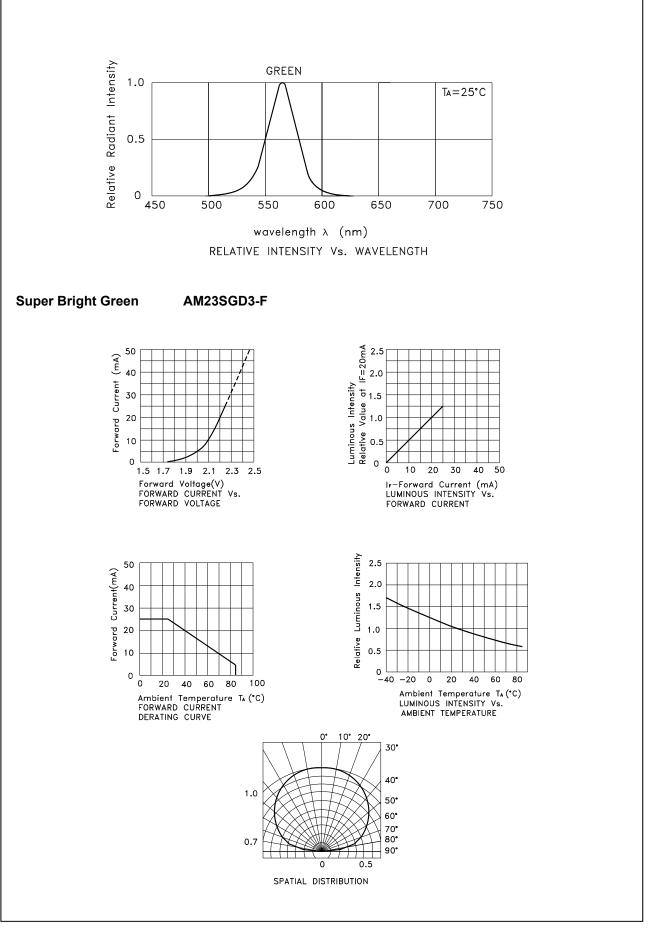
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

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:

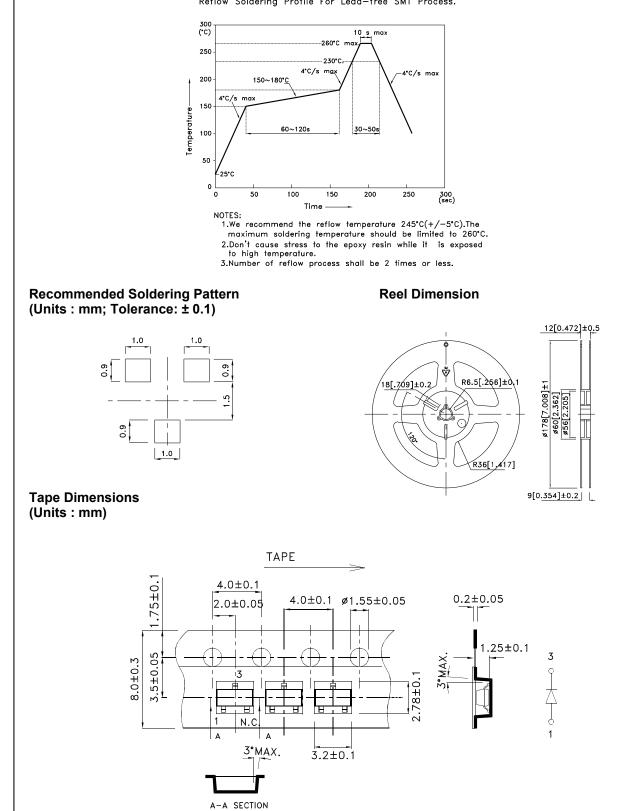
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



AM23SGD3-F

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.



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