SURFACE MOUNT DISPLAY

Part Number: ACSA03-41SGWA-F01

Super Bright Green

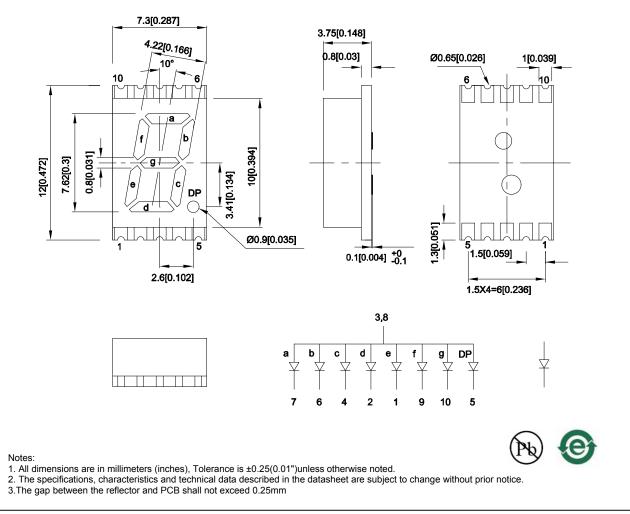
Features

- 0.3 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package : 550pcs / reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

Description

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

Package Dimensions& Internal Circuit Diagram



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| Selection Guide | | | | | | | | | |
|-------------------|---------------------------|----------------|------------------------|-------|-------------------|--|--|--|--|
| Part No. | Emitting Color (Material) | Lens Type | lv (ucd) [1] @ 10mA | | Description | | | | |
| | | | Min. | Тур. | | | | | |
| ACSA03-41SGWA-F01 | Super Bright Green (GaP) | White Diffused | 1400 | 3500 | Common Anode, Rt. | | | | |
| | | | *560 | *1200 | Hand Decimal. | | | | |

Notes:

Luminous intensity / luminous Flux: +/-15%.
Luminous intensity value is traceable to CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Emitting Color | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|--------------------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Super Bright Green | 565 | | nm | I⊧=10mA |
| λD [1] | Dominant Wavelength | Super Bright Green | 568 | | nm | IF=10mA |
| Δλ1/2 | Spectral Line Half-width | Super Bright Green | 30 | | nm | I⊧=10mA |
| С | Capacitance | Super Bright Green | 15 | | pF | VF=0V;f=1MHz |
| Vf [2] | Forward Voltage | Super Bright Green | 2.0 | 2.5 | V | I⊧=10mA |
| 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 CIE127-2007 standards.

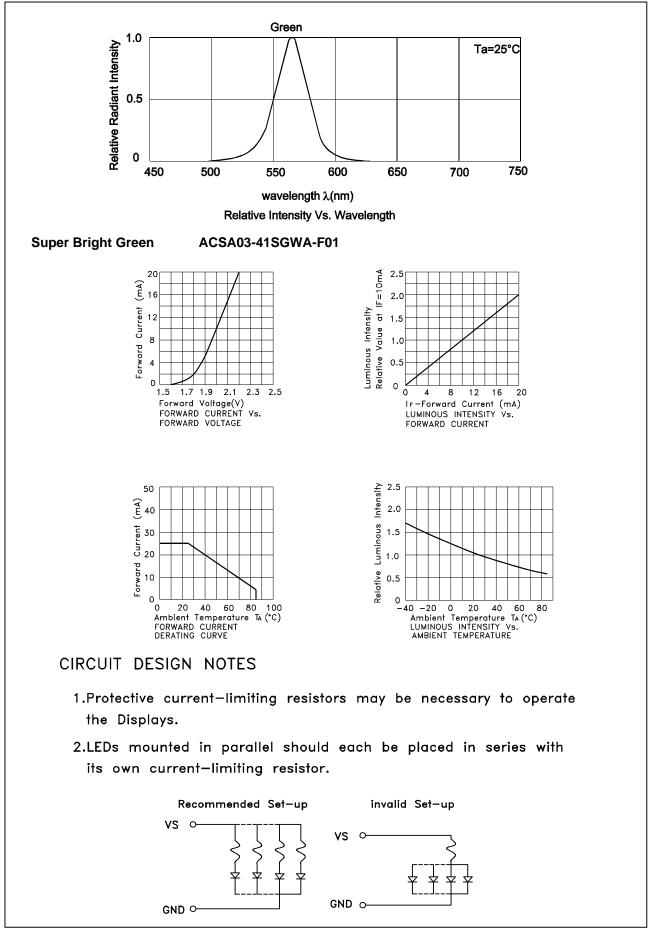
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

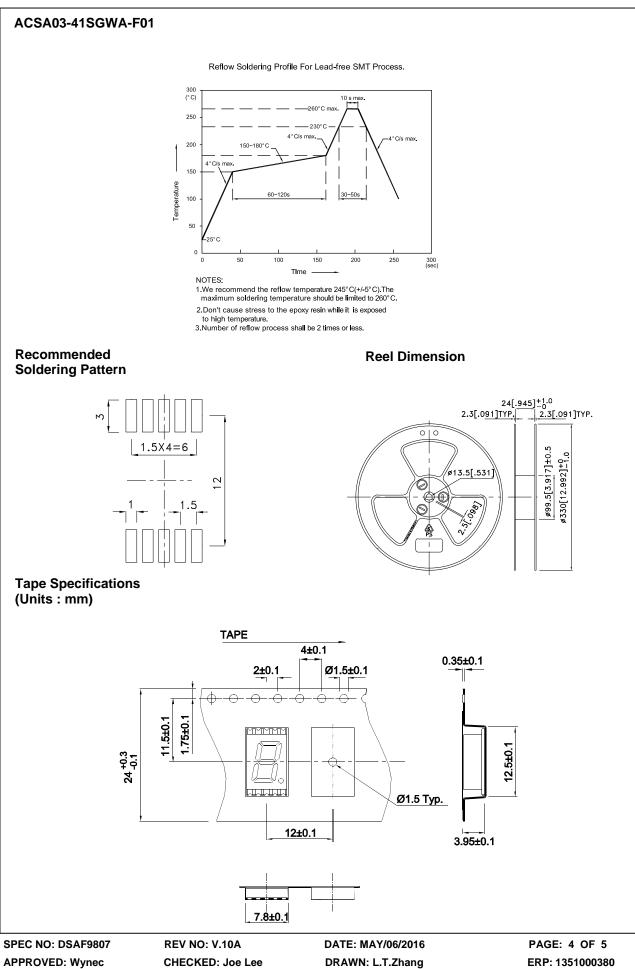
| Parameter | Values | Units | | |
|---------------------------------|----------------|-------|--|--|
| Power dissipation | 62.5 | mW | | |
| DC Forward Current | 25 | mA | | |
| Peak Forward Current [1] | 140 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating / Storage Temperature | -40°C To +85°C | | | |

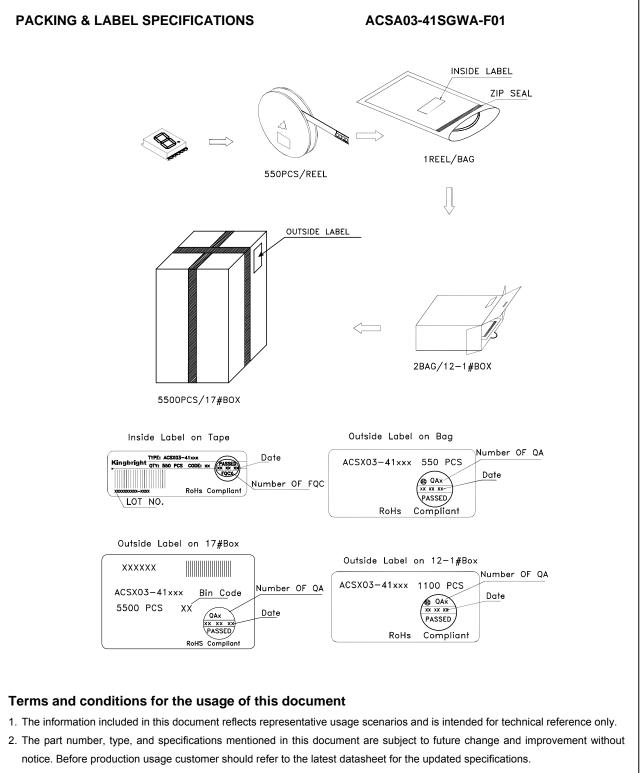
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



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- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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