

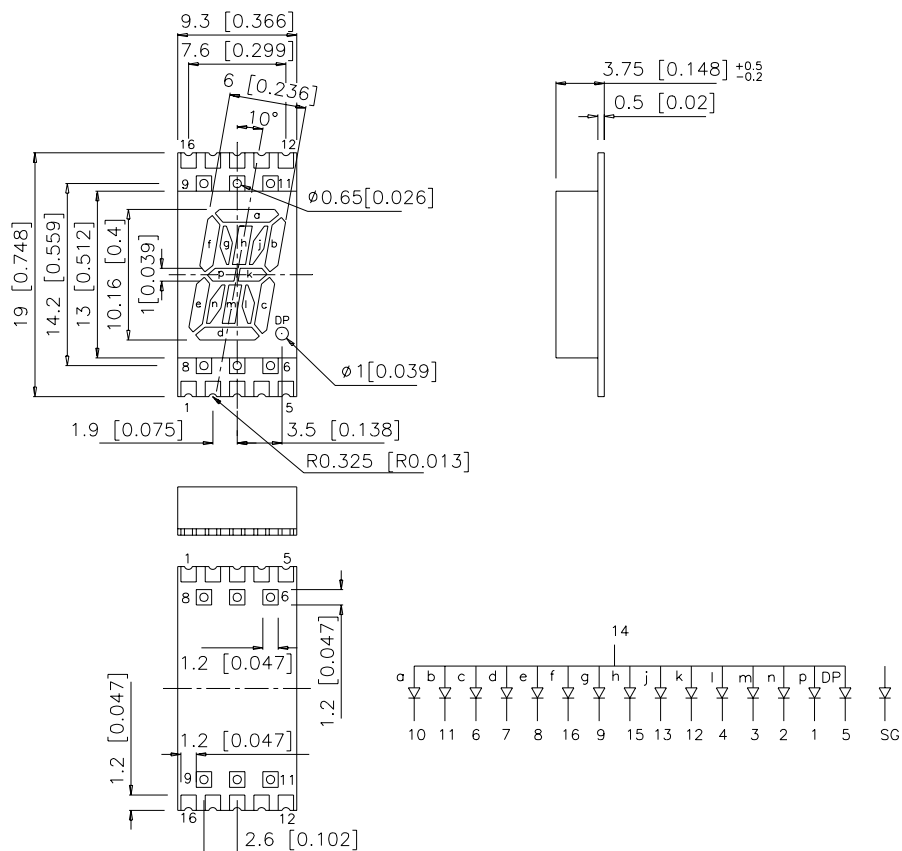
## Features

- 0.4 INCH CHARACTER HEIGHT.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- MECHANICALLY RUGGED.
- GRAY FACE, WHITE SEGMENT.
- PACKAGE : 800PCS / REEL.

### Description

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

### Package Dimensions & Internal Circuit Diagram



Notes:

2. Specifications are subject to change without notice.

## Selection Guide

| Part No.       | Dice                    | Lens Type      | Iv (ucd)<br>@ 10 mA |      | Description                      |
|----------------|-------------------------|----------------|---------------------|------|----------------------------------|
|                |                         |                | Min.                | Typ. |                                  |
| APPSA04-41SGWA | SUPER BRIGHT GREEN(GaP) | WHITE DIFFUSED | 1900                | 7500 | Common Anode,Rt. Hand<br>Decimal |

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

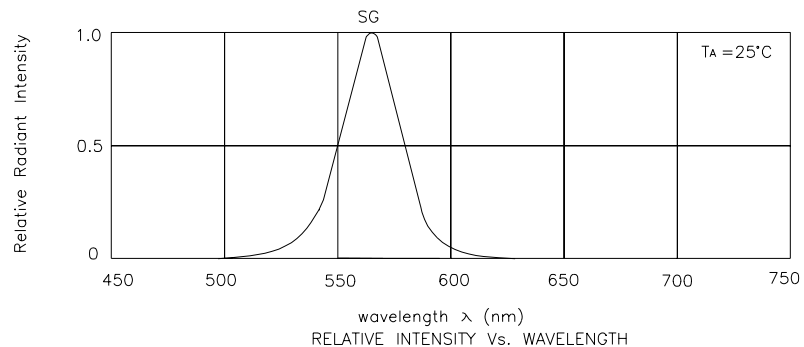
| Symbol                | Parameter                | Device             | Typ. | Max. | Units | Test Conditions           |
|-----------------------|--------------------------|--------------------|------|------|-------|---------------------------|
| $\lambda_{peak}$      | Peak Wavelength          | Super Bright Green | 565  |      | nm    | I <sub>F</sub> =20mA      |
| $\lambda_D$           | Dominate Wavelength      | Super Bright Green | 568  |      | nm    | I <sub>F</sub> =20mA      |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Super Bright Green | 30   |      | nm    | I <sub>F</sub> =20mA      |
| C                     | Capacitance              | Super Bright Green | 15   |      | pF    | V <sub>F</sub> =0V;f=1MHz |
| V <sub>F</sub>        | Forward Voltage          | Super Bright Green | 2.2  | 2.5  | V     | I <sub>F</sub> =20mA      |
| I <sub>R</sub>        | Reverse Current          | Super Bright Green |      | 10   | uA    | V <sub>R</sub> = 5V       |

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

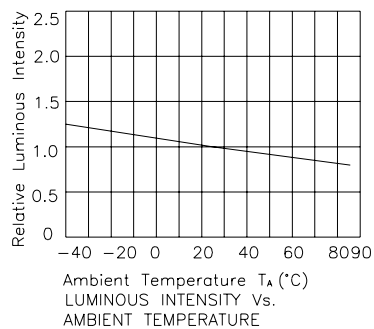
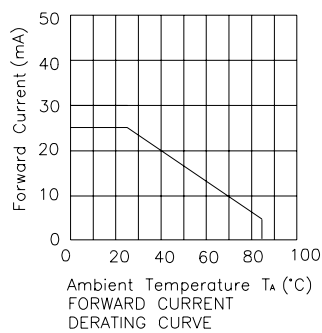
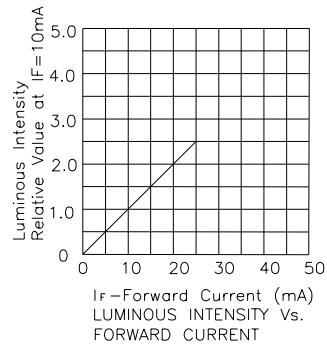
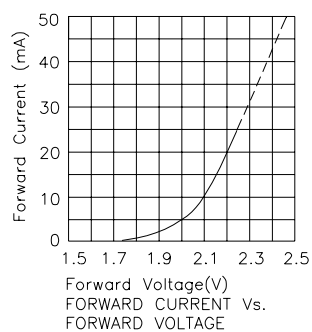
| Parameter                     | Super Bright Green | Units |
|-------------------------------|--------------------|-------|
| Power dissipation             | 105                | mW    |
| DC Forward Current            | 25                 | mA    |
| Peak Forward Current [1]      | 140           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

Note:

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



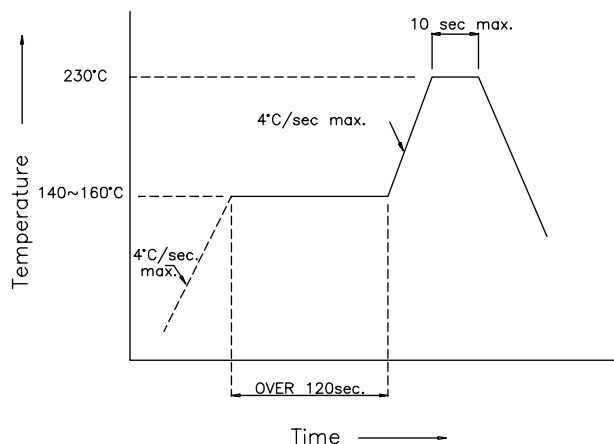
## Super Bright Green APPSA04-41SGWA



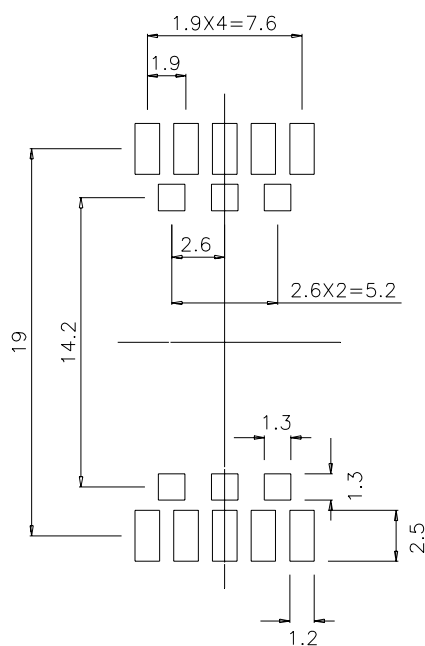
## APPSA04-41SGWA

### 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)

