

AM2520EF/4SGD5V SUPER BRIGHT GREEN

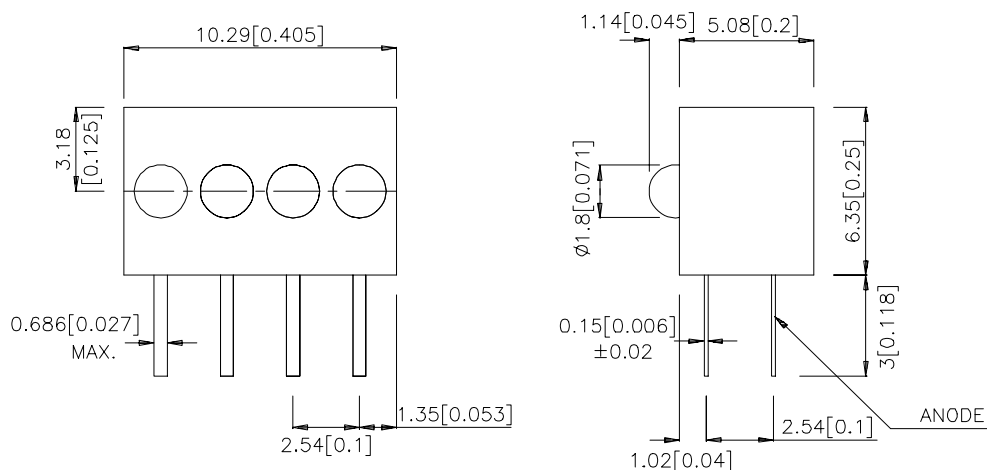
### Features

- BLACK CASE ENHANCES CONTRAST.
- VIBRATION AND SHOCK RESISTANT.
- AVAILABLE WITH A VARIETY OF LEDs.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- 5V INTERNAL RESISTOR.

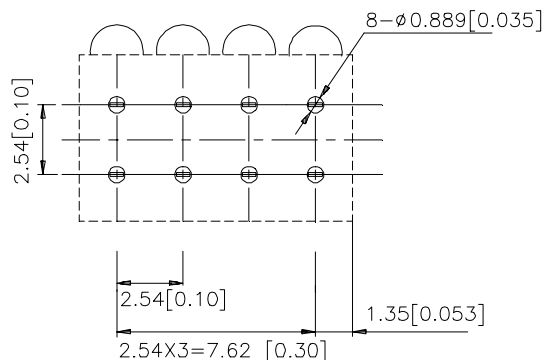
### Description

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

### Package Dimensions



### RECOMMENDED PCB LAYOUT



#### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25$  (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      | Iv (mcd)<br>V=5V |      | Viewing Angle |
|-----------------|--------------------------|----------------|------------------|------|---------------|
|                 |                          |                | Min.             | Typ. | 2θ1/2         |
| AM2520EF/4SGD5V | SUPER BRIGHT GREEN (GaP) | GREEN DIFFUSED | 1.6              | 4    | 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<sub>A</sub>=25°C

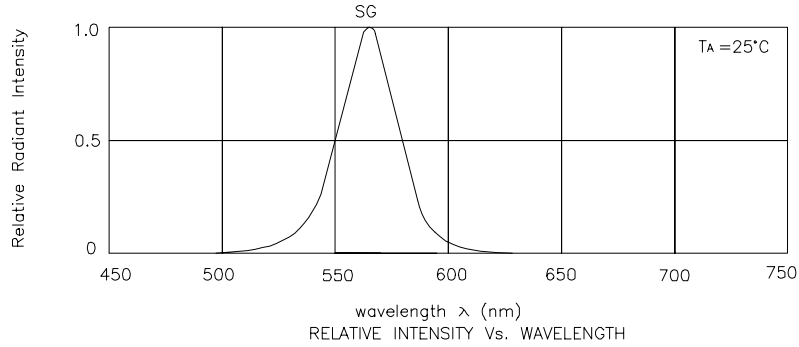
| Symbol            | Parameter                | Device             | Typ. | Max. | Units | Test Conditions     |
|-------------------|--------------------------|--------------------|------|------|-------|---------------------|
| λ <sub>peak</sub> | Peak Wavelength          | Super Bright Green | 565  |      | nm    | V <sub>F</sub> =5V  |
| λ <sub>D</sub>    | Dominate Wavelength      | Super Bright Green | 568  |      | nm    | V <sub>F</sub> =5V  |
| Δλ <sub>1/2</sub> | Spectral Line Half-width | Super Bright Green | 30   |      | nm    | V <sub>F</sub> =5V  |
| I <sub>F</sub>    | Forward Current          | Super Bright Green | 11.5 | 17.5 | mA    | V <sub>F</sub> =5V  |
| 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          | 85                  | mW    |
| DC Forward Voltage         | 6                   | V     |
| Reverse Voltage            | 5                   | V     |
| Operating Temperature      | -40°C To +70°C      |       |
| Storage Temperature        | -40°C To +85°C      |       |
| Lead Solder Temperature[1] | 260°C For 5 Seconds |       |

Note:

1. 2mm below package base.



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