

Part Number: AM2520EF/4SGD

Super Bright Green

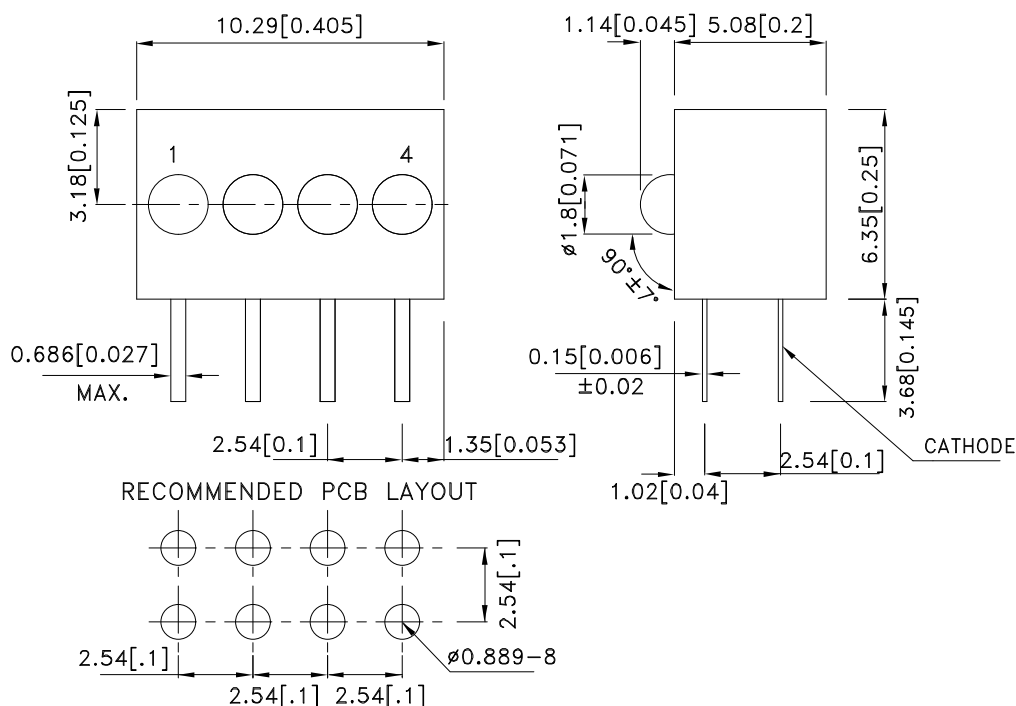
### Features

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

### Description

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

### Package Dimensions



#### 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 leads emerge from the package.
4. Specifications are subject to change without notice.



## Selection Guide

| Part No.      | Dice                     | Lens Type      | Iv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle [1] |
|---------------|--------------------------|----------------|------------------------|------|----------------------|
|               |                          |                | Min.                   | Typ. | 2θ1/2                |
| AM2520EF/4SGD | Super Bright Green (GaP) | GREEN DIFFUSED | 2.6                    | 10   | 40°                  |

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity/ luminous Flux: +/-15%.

## Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter                | Device             | Typ. | 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         |
| C      | Capacitance              | Super Bright Green | 15   |      | pF    | Vf=0V;f=1MHz    |
| Vf [2] | Forward Voltage          | Super Bright Green | 2.2  | 2.5  | V     | If=20mA         |
| Ir     | Reverse Current          | Super Bright Green |      | 10   | uA    | VR = 5V         |

Notes:

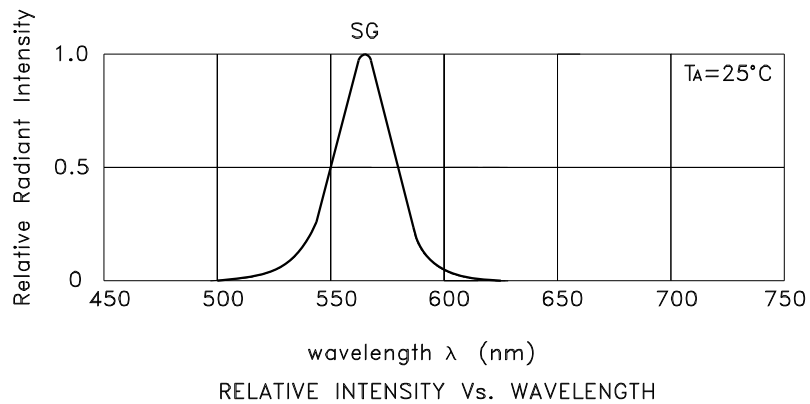
- 1.Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## 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/Storage Temperature | -40°C To +85°C      |       |
| Lead Solder Temperature [2]   | 260°C For 3 Seconds |       |
| Lead Solder Temperature [3]   | 260°C For 5 Seconds |       |

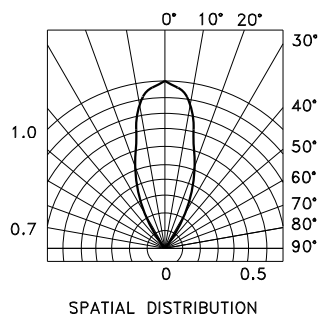
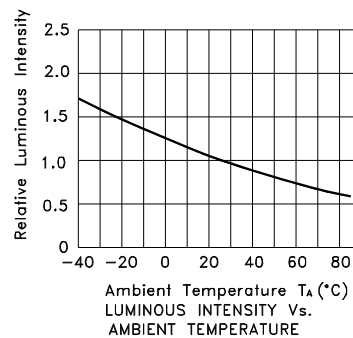
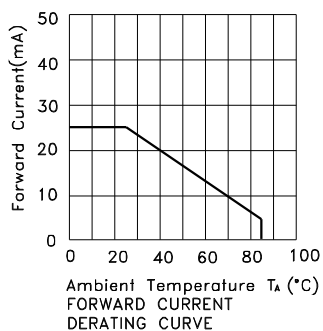
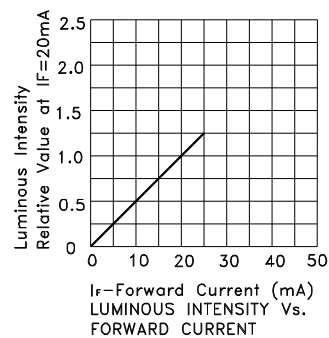
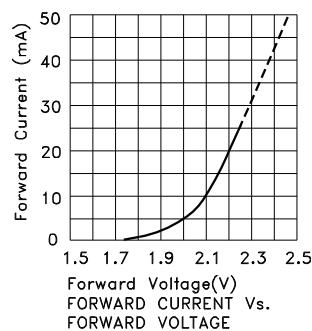
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



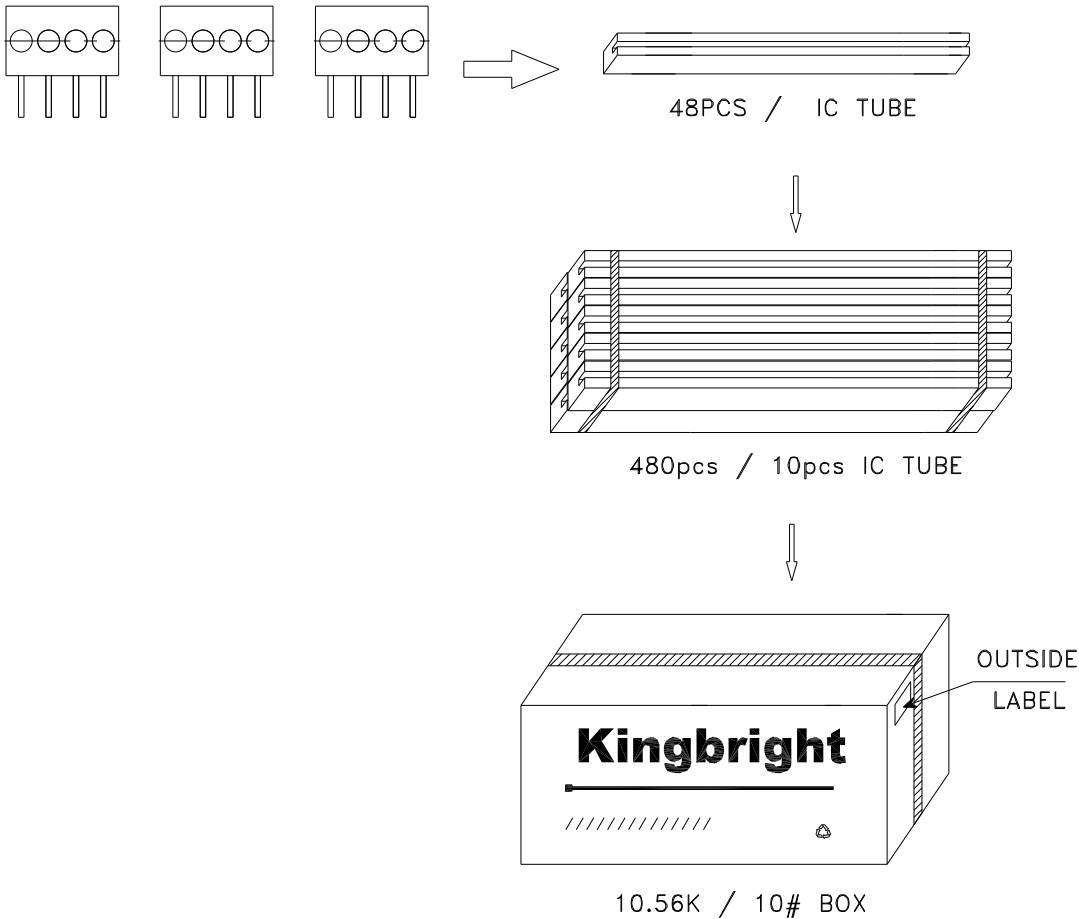
## Super Bright Green

## AM2520EF/4SGD



PACKING & LABEL SPECIFICATIONS

AM2520EF/4SGD



|                                                                                                          |          |
|----------------------------------------------------------------------------------------------------------|----------|
| <b>Kingbright</b>                                                                                        |          |
| Q.C.                                                                                                     |          |
| TYPE NO : AM2520EFxxx                                                                                    |          |
| QUANTITY : 480 pcs                                                                                       |          |
| S/N : XX                                                                                                 | CODE: XX |
| LOT NO : <br>XX-HPXXX |          |
| RoHS Compliant                                                                                           |          |