

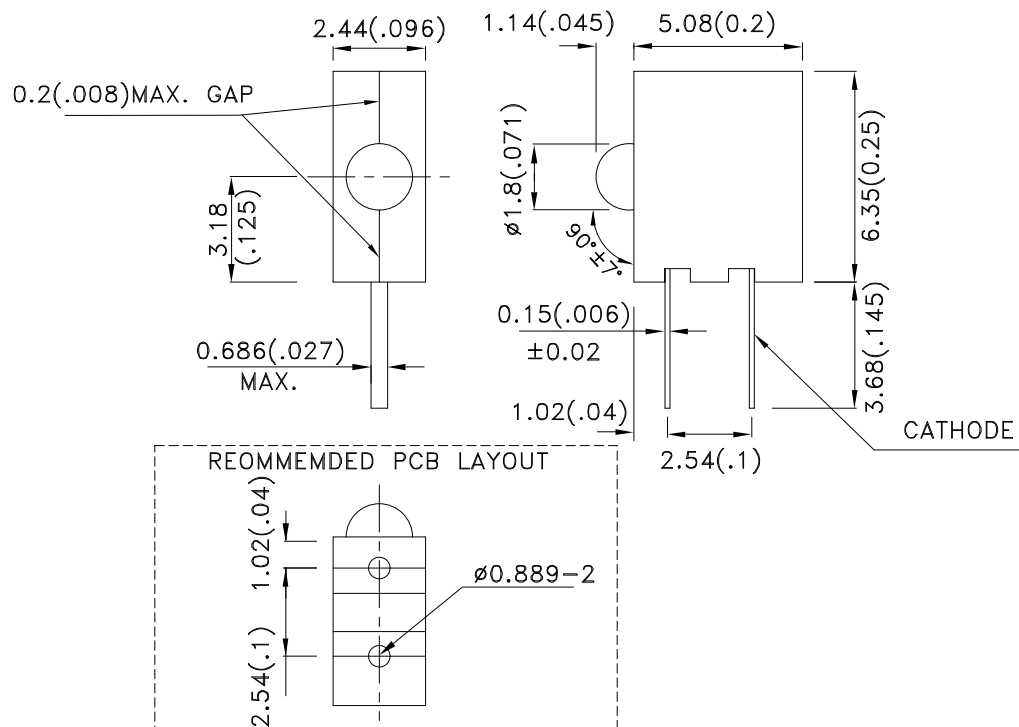
Features

- BLACK CASE ENHANCES CONTRAST
- VIBRATION AND SHOCK RESISTANT.
- 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] @ 20mA | | Viewing Angle [1] |
|--------------|--------------------------|----------------|------------------------|------|----------------------|
| | | | Min. | Typ. | 2θ1/2 |
| AM2520EH/SGD | 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 |
|--------------------|--------------------------|--------------------|------|------|-------|---------------------------|
| λ _{peak} | Peak Wavelength | Super Bright Green | 565 | | nm | I _F =20mA |
| λ _D [1] | Dominant Wavelength | Super Bright Green | 568 | | nm | I _F =20mA |
| Δλ _{1/2} | Spectral Line Half-width | Super Bright Green | 30 | | nm | I _F =20mA |
| C | Capacitance | Super Bright Green | 15 | | pF | V _F =0V;f=1MHz |
| V _F [2] | Forward Voltage | Super Bright Green | 2.2 | 2.5 | V | I _F =20mA |
| I _R | Reverse Current | Super Bright Green | | 10 | uA | V _R = 5V |

Notes:

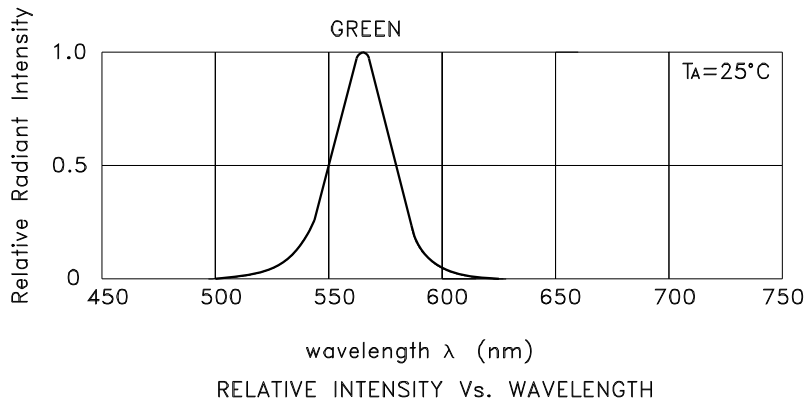
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

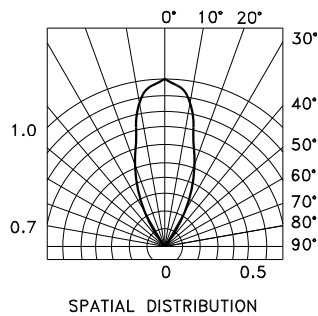
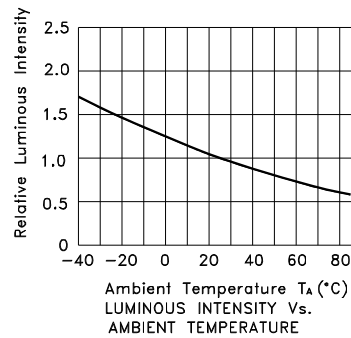
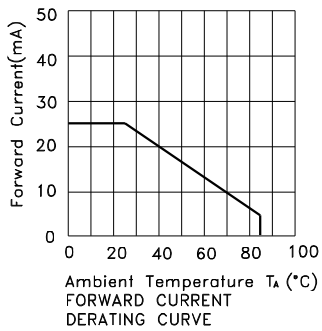
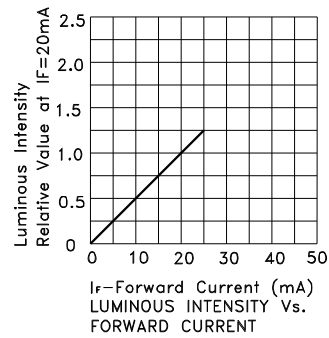
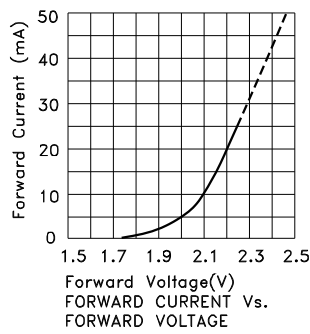
| Parameter | Super Bright Green | Units |
|-------------------------------|---------------------|-------|
| Power dissipation | 62.5 | mW |
| DC Forward Current | 25 | mA |
| Peak Forward Current [1] | 140 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |
| Lead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

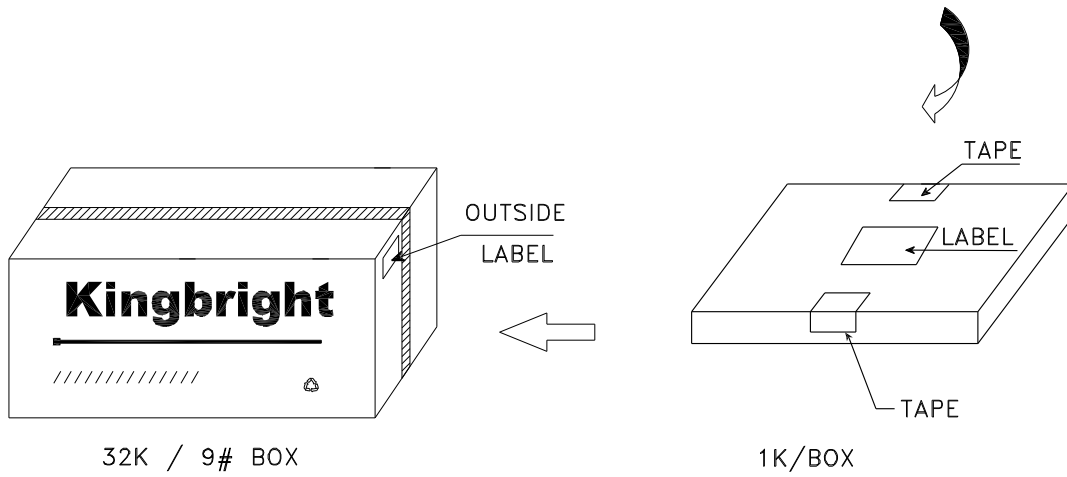
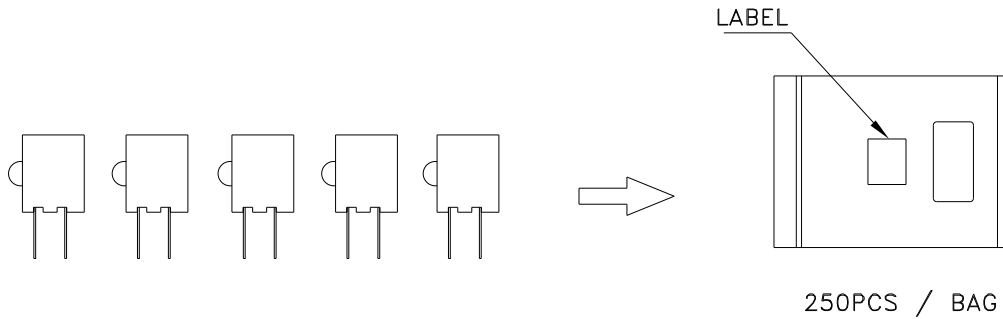



Super Bright Green AM2520EH/SGD



PACKING & LABEL SPECIFICATIONS

AM2520EH/SGD



| | | | | | |
|---|------|---|-----|------------|--------|
| Kingbright | | | | | |
| P/NO: AM2520EH/xxx | | | | | |
| QTY: 250 pcs | Q.C. | <table border="1"> <tr> <td>Q C</td> </tr> <tr> <td>xx xx xxxx</td> </tr> <tr> <td>PASSED</td> </tr> </table> | Q C | xx xx xxxx | PASSED |
| Q C | | | | | |
| xx xx xxxx | | | | | |
| PASSED | | | | | |
| S/N: XXXX | | | | | |
| CODE: XXX | | | | | |
| LOT NO: | | | | | |
|  <small>xxxxxxxxxxxxxxxxxxxxxxxx</small> | | | | | |
| RoHS Compliant | | | | | |