

Part Number: KB2820SGD

Super Bright Green

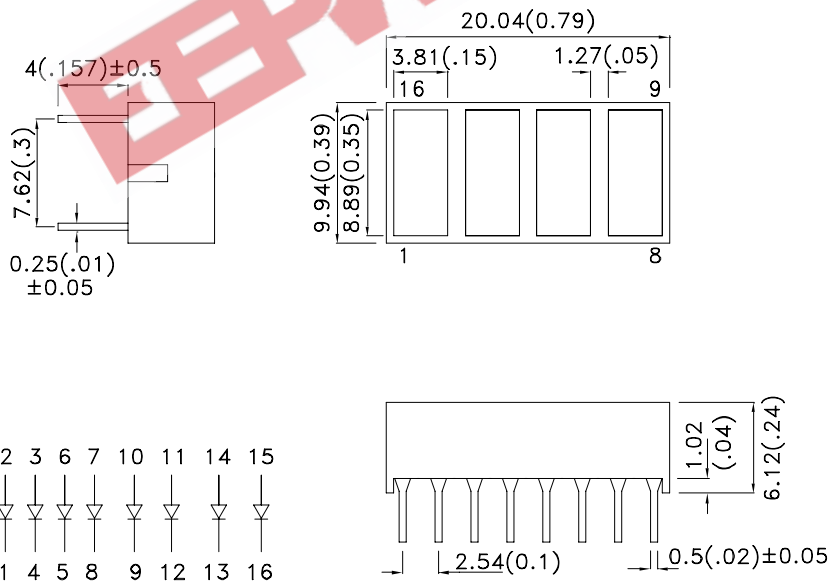
Features

- UNIFORM LIGHT EMITTING AREA.
- LOW CURRENT OPERATION.
- EASILY MOUNTED ON P.C. BOARDS.
- FLUSH MOUNTABLE.
- EXCELLENT ON/OFF CONTRAST.
- CAN BE USED WITH PANELS AND LEGEND MOUNTS.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- RoHS COMPLIANT.

Description

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

Package Dimensions & Internal Circuit Diagram



Notes:

1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01") unless otherwise noted.
2. Specifications are subject to change without notice.



Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) [1] @ 20mA | |
|-----------|--------------------------|----------------|------------------------|------|
| | | | Min. | Typ. |
| KB2820SGD | Super Bright Green (GaP) | GREEN DIFFUSED | 7 | 40 |

Note:

1. 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 |
| $\Delta\lambda_{1/2}$ | 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:

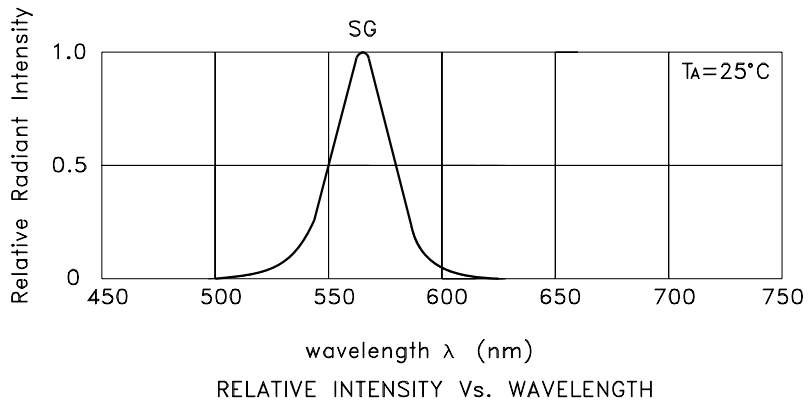
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

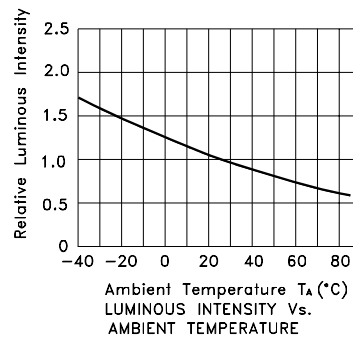
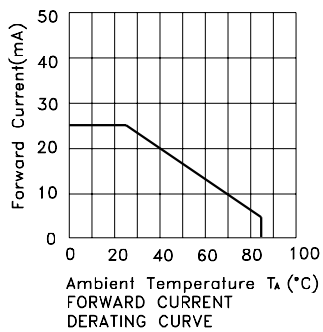
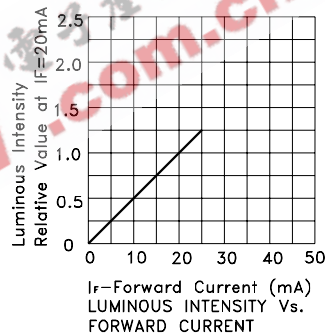
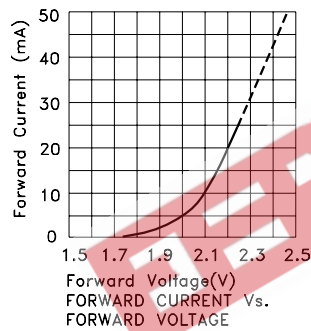
| Parameter | Super Bright Green | Units |
|---------------------------------|-----------------------|-------|
| Power dissipation | 62.5 | mW |
| DC Forward Current | 25 | mA |
| Peak Forward Current [1] | 140 | mA |
| Reverse Voltage | 5 | V |
| Operating / Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature[2] | 260°C For 3-5 Seconds | |

Notes:

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

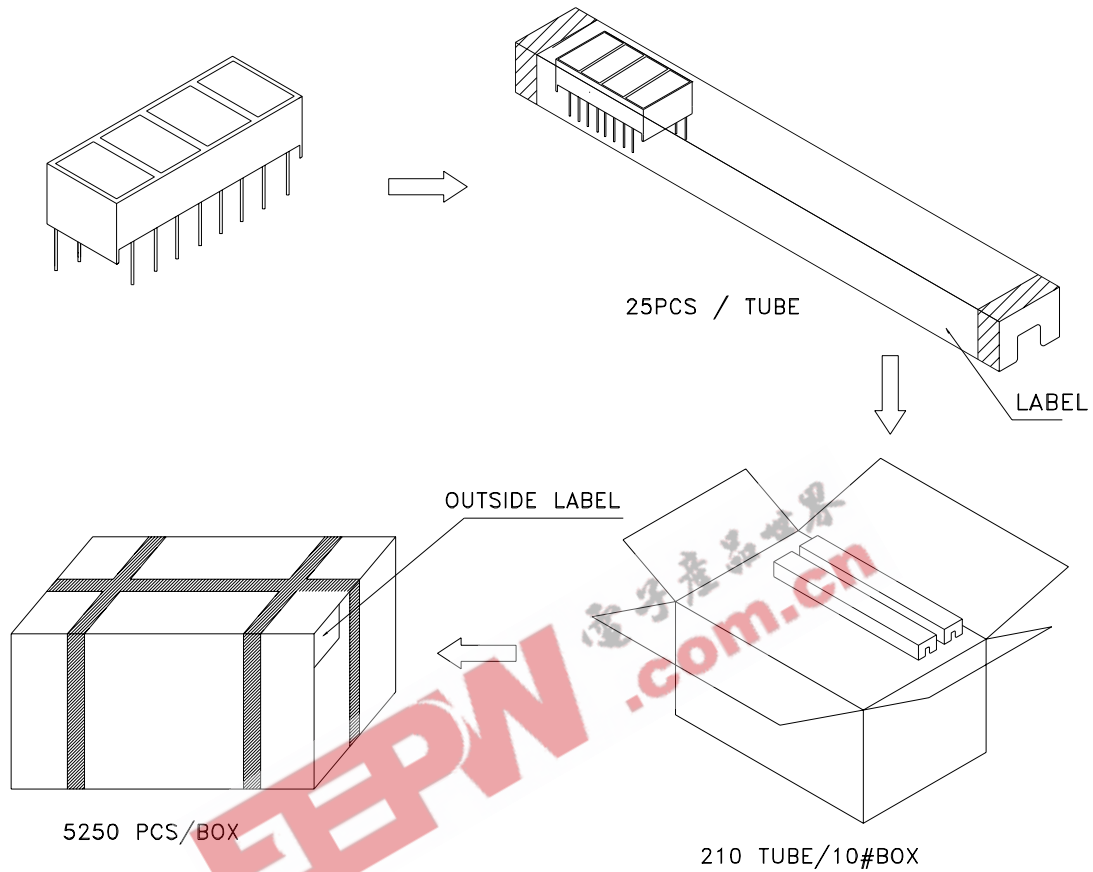


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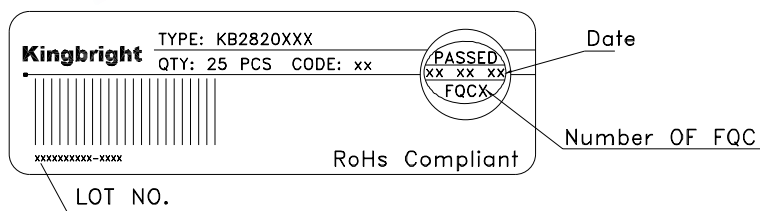


PACKING & LABEL SPECIFICATIONS

KB2820SGD



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

