

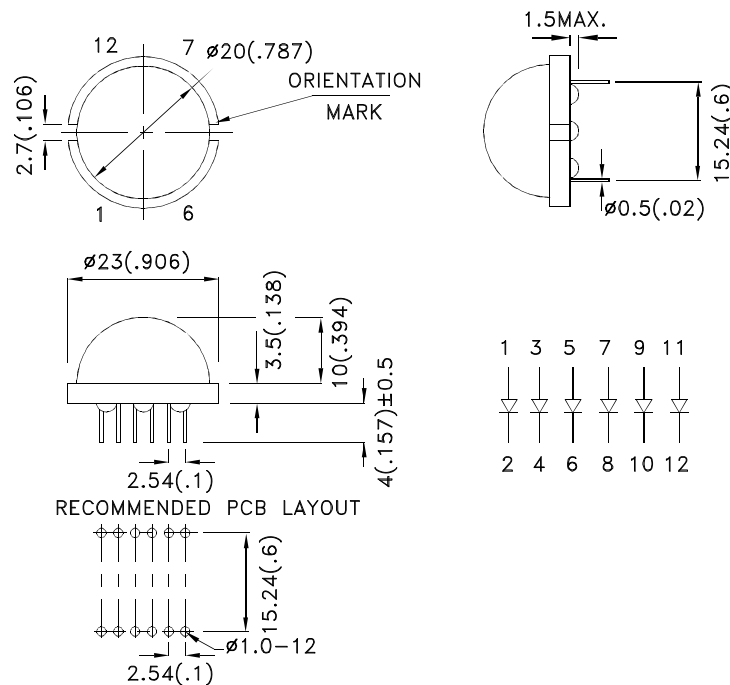
### Features

- 12 pins.
- High luminous intensity.
- Low power consumption.
- Wide viewing angle.
- Categorized for luminous intensity.
- Excellent on/off contrast.
- Easy mounting on P.C. board or sockets.
- Solid state reliability.
- 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                |
| DLA/6SGD | Super Bright Green (GaP) | GREEN DIFFUSED | 70                     | 200  | 120°                 |

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak 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:

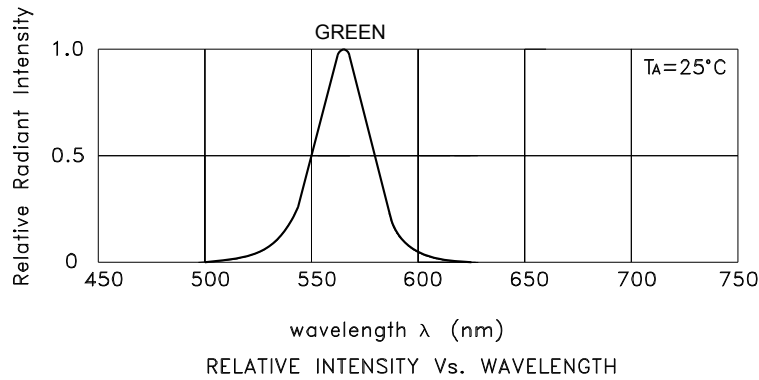
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

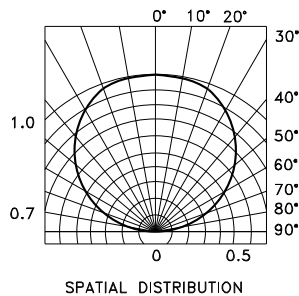
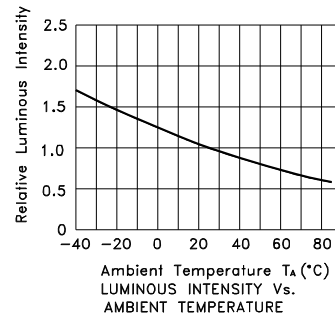
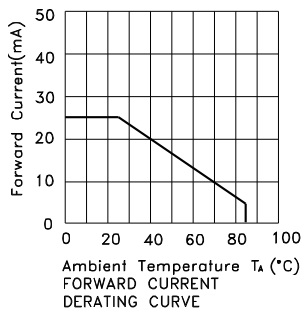
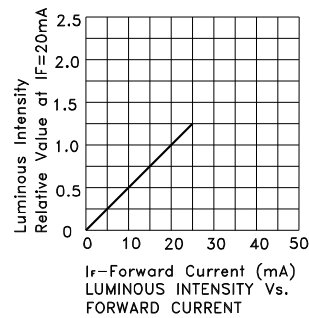
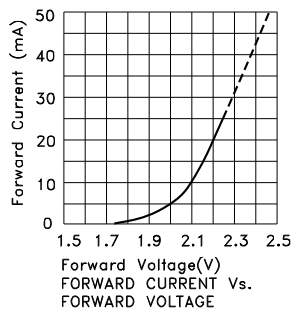
| Parameter                     | Super Bright Green    | Units |
|-------------------------------|-----------------------|-------|
| Power dissipation             | 62.5                  | mW    |
| DC Forward Current            | 25                    | mA    |
| Peak Forward Current [1]      | 140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

Notes:

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

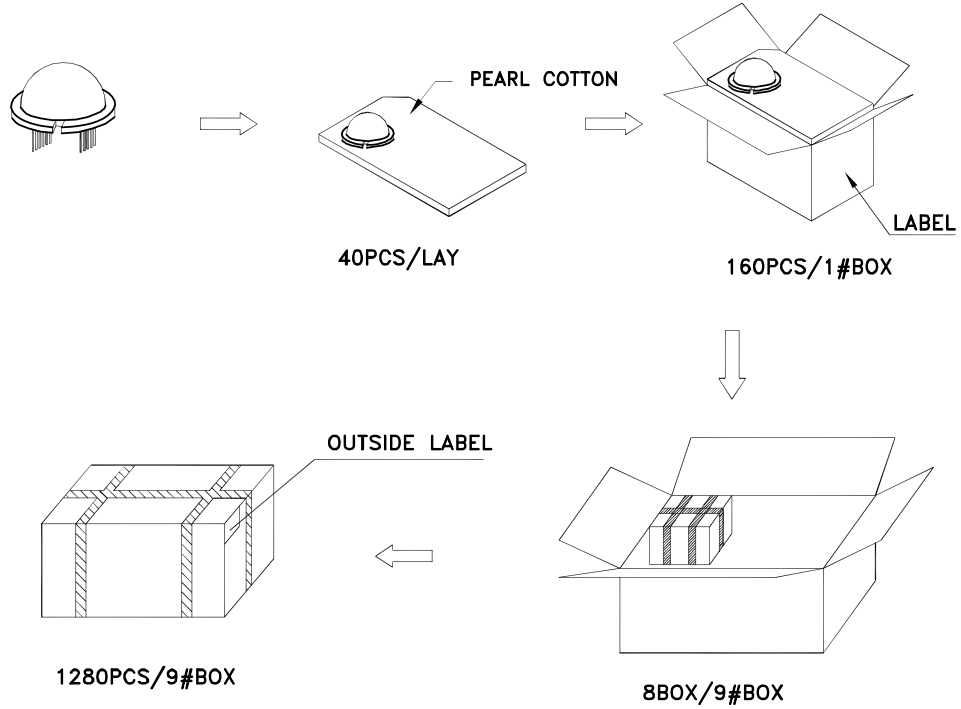


**Super Bright Green      DLA/6SGD**

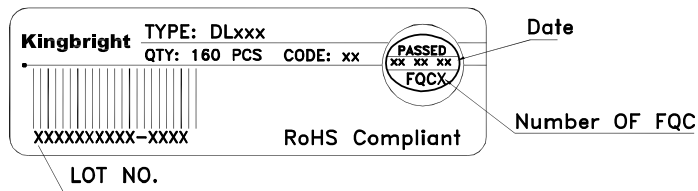


## PACKING & LABEL SPECIFICATIONS

DLA/6SGD



Inside LABEL Paste On The 1#BOX



Outside LABEL Paste On The 9#BOX

