

Part Number: BL0102-14-34

Super Bright Red  
Super Bright Green

### Features

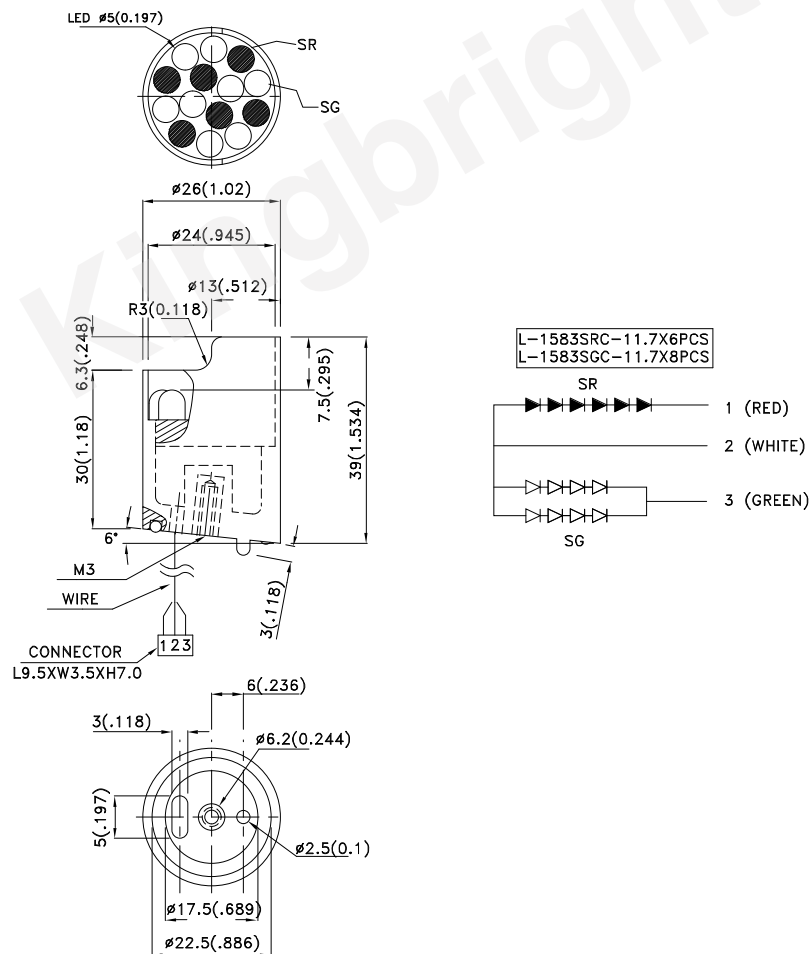
- High visibility.
- No. of built-in 5mm LED lamps: Super Bright Red 6 pcs,  
Super Bright Green 8 pcs.
- Waterproof package with hood suitable for outdoor and indoor  
information boards.
- RoHS compliant.

### Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

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. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

| Symbol | Parameter                | Device       | Term               | Min  | Typ.  |      | Max. | Units | Test Conditions |         |
|--------|--------------------------|--------------|--------------------|------|-------|------|------|-------|-----------------|---------|
| IV     | Luminous Intensity       | BL0102-14-34 | Super Bright Red   | 1800 | 3600  |      | -    | mcd   | IF=20mA         |         |
|        |                          |              |                    | *600 | *1200 |      |      |       |                 |         |
|        |                          |              | Super Bright Green | 800  | 1600  |      | -    | mcd   | IF=40mA         |         |
|        |                          |              |                    | *800 | *1600 |      |      |       |                 |         |
| 210/2  | Viewing Angle            |              | -                  | -    | 40    |      | -    | deg   | -               |         |
| VF     | Forward Voltage          |              | Super Bright Red   | -    | 13    |      | 17.5 | V     | IF=20mA         |         |
|        |                          |              | Super Bright Green | -    | 17.6  |      | 20   | V     | IF=20mA         |         |
| λP     | Peak wavelength          |              | Super Bright Red   | -    | 660   | *655 |      | -     | nm              | IF=20mA |
|        |                          |              | Super Bright Green | -    | 565   | *565 |      | -     |                 | IF=20mA |
| λD     | Dominate Wavelength      |              | Super Bright Red   | -    | 640   | *640 |      | -     | nm              | IF=20mA |
|        |                          |              | Super Bright Green | -    | 568   | *568 |      | -     |                 | IF=20mA |
| Δλ1/2  | Spectral Line Half-width |              | Super Bright Red   | -    | 20    |      | -    | nm    | IF=20mA         |         |
|        |                          |              | Super Bright Green | -    | 30    |      | -    |       | IF=20mA         |         |
| IR     | Reverse Current          |              | -                  | -    | -     |      | 20   | uA    | VR = 5V         |         |

Note:

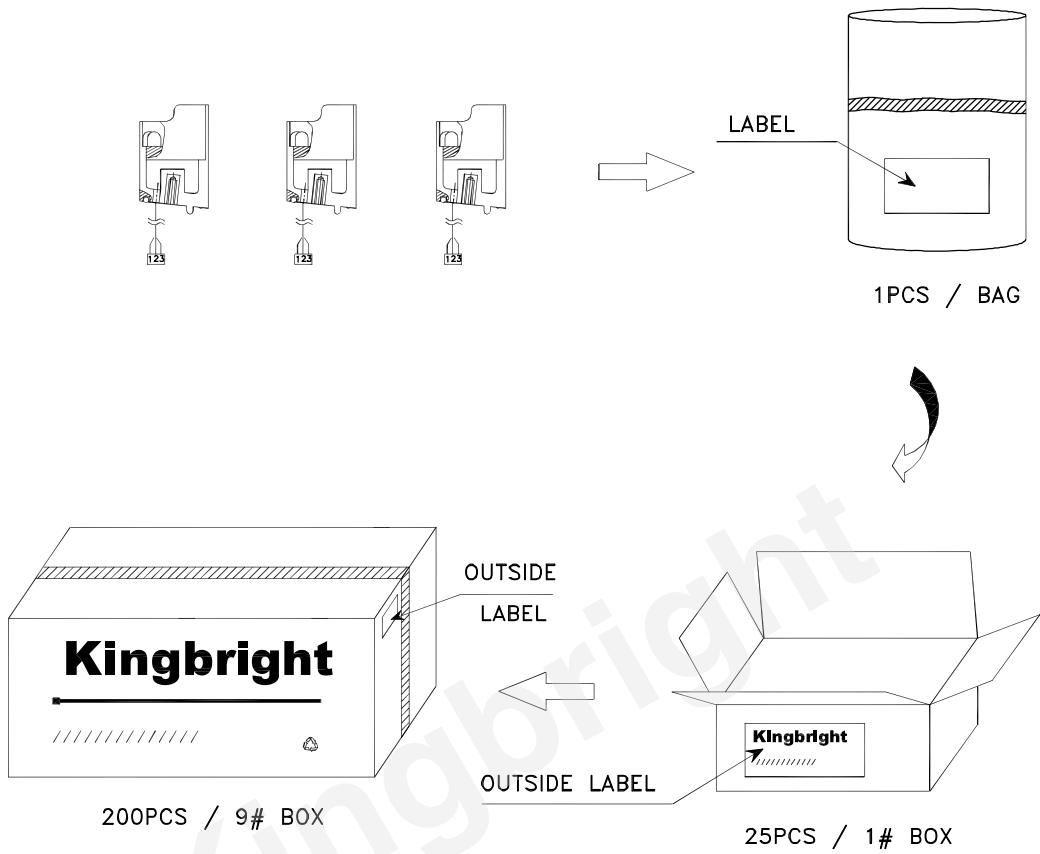
\*Luminous intensity value and Wavelength value are traceable to the CIE127-2007 compliant national standards.


## Absolute Maximum Ratings at T<sub>A</sub>=25°C

| Parameter               | Type             |                    | Units |
|-------------------------|------------------|--------------------|-------|
|                         | Super Bright Red | Super Bright Green |       |
| Total Power dissipation | 450              | 600                | mW    |
| DC Forward Current      | 30               | 60                 | mA    |
| Reverse Voltage         | 5                |                    | V     |
| Operating Temperature   | -40 To +70       |                    | °C    |
| Storage Temperature     | -40 To +85       |                    | °C    |

PACKING & LABEL SPECIFICATIONS

BL0102-14-34



|   |      |            |
|---|------|------------|
| <b>Kingbright</b>   |      |            |
| P/NO: BL0102-14xxx  |      |            |
| QTY: 1pcs   | Q.C. | Q C        |
| S/N: XXXX   |      | XX XX XXXX |
| CODE: XXX   |      | PASSED     |
| LOT NO:   |      |            |
|  |      |            |
| XXXXXXXXXXXXXXXXXXXX  |      |            |
| RoHS Compliant  |      |            |

Detailed application notes are listed on our website.  
[http://www.kingbright.com/application\\_notes](http://www.kingbright.com/application_notes)