

Part Number: BL0508-09-73

SUPER BRIGHT RED  
SUPER BRIGHT GREEN

### Features

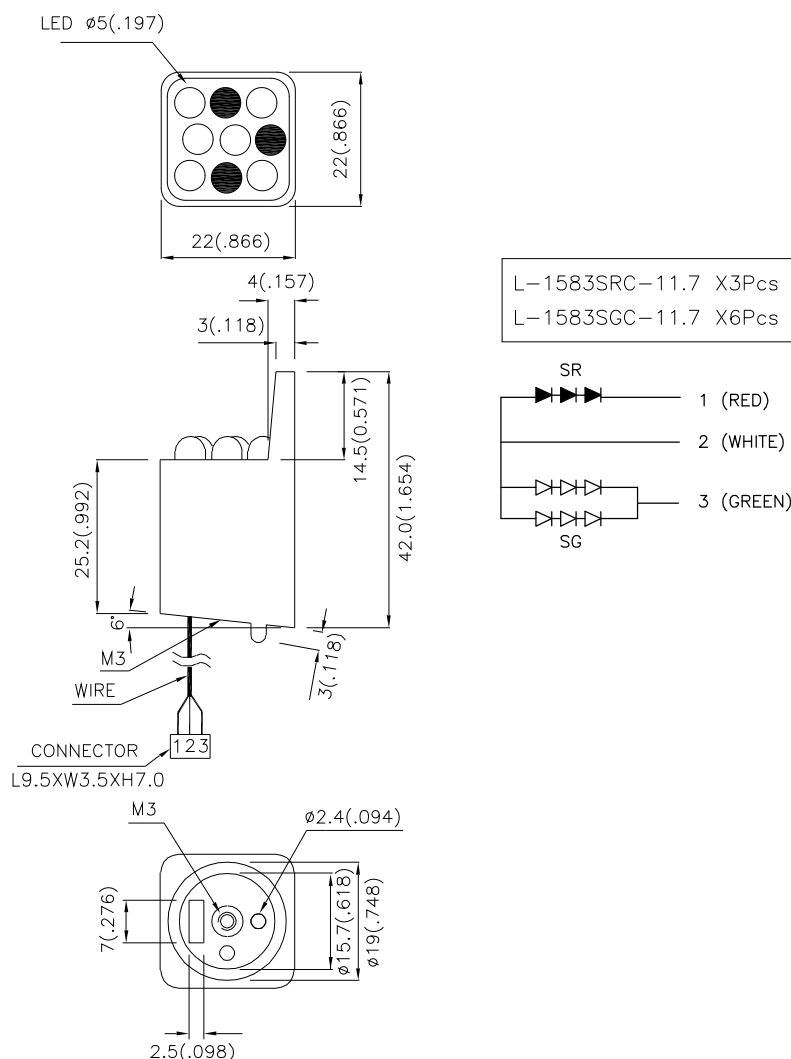
- HIGH VISIBILITY.
- EMITTING COLOR: SUPER BRIGHT RED AND SUPER BRIGHT GREEN.
- NO. OF BUILT-IN 5mm LED LAMPS: SUPER BRIGHT RED 3 PCS, SUPER BRIGHT GREEN 6 PCS.
- WATERPROOF PACKAGE WITH HOOD SUITABLE FOR OUTDOOR AND INDOOR INFORMATION BOARDS.
- RoHS COMPLIANT.

### 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. Specifications are subjected to change without notice.

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

| Symbol            | Parameter                | Device       | Wafer | Min. | Typ. | Max. | Units | Test Conditions      |
|-------------------|--------------------------|--------------|-------|------|------|------|-------|----------------------|
| I <sub>v</sub>    | Luminous Intensity       | BL0508-09-73 | SR    | 480  | 1200 | -    | mcd   | I <sub>F</sub> =20mA |
|                   |                          |              | SG    | 380  | 800  | -    |       | I <sub>F</sub> =40mA |
| 2θ1/2             | Viewing Angle            |              | -     | -    | 40   |      | deg   | -                    |
| V <sub>F</sub>    | Forward Voltage          |              | SR    | -    | 5.6  | 7.5  | V     | I <sub>F</sub> =20mA |
|                   |                          |              | SG    | -    | 6.6  | 7.5  |       | I <sub>F</sub> =40mA |
| λ <sub>P</sub>    | Peak Wavelength          |              | SR    | -    | 660  | -    | nm    | I <sub>F</sub> =20mA |
|                   |                          |              | SG    | -    | 565  | -    |       | I <sub>F</sub> =40mA |
| λ <sub>D</sub>    | Dominant Wavelength      |              | SR    | -    | 640  | -    | nm    | I <sub>F</sub> =20mA |
|                   |                          |              | SG    | -    | 568  | -    |       | I <sub>F</sub> =40mA |
| Δλ <sub>1/2</sub> | Spectral Line Half-width |              | SR    | -    | 20   | -    | nm    | I <sub>F</sub> =20mA |
|                   |                          |              | SG    | -    | 30   | -    |       | I <sub>F</sub> =40mA |
| I <sub>R</sub>    | Reverse Current          |              | -     | -    | -    | 30   | uA    | V <sub>R</sub> = 5V  |

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

| Parameter               | Value      |    | Units |
|-------------------------|------------|----|-------|
|                         | SR         | SG |       |
| Total Power dissipation | 650        |    | mW    |
| DC Forward Current      | 30         | 25 | mA    |
| Reverse Voltage         | 5          |    | V     |
| Operating Temperature   | -40 To +70 |    | °C    |
| Storage Temperature     | -40 To +85 |    | °C    |