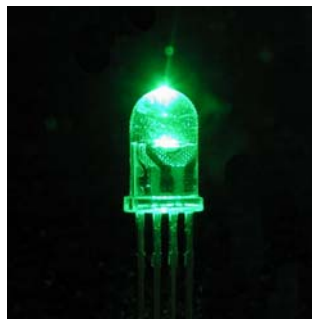
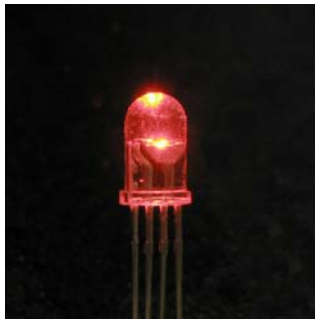




## TRICOLOR **RED GREEN BLUE** LED

**Part No. : SB5RGB4-C**



**This full color super bright LED contains red green and blue LEDs housed in a single 5mm epoxy package . They are available with water clear lenses .**

### **FEATURES**

- ❖ High Intensity illumination
- ❖ High ON/OFF contrast
- ❖ Low power consumption
- ❖ Fast turn ON/OFF response time
- ❖ Long life / 100,000 hours

### **Applications**

- ❖ Multicolor signage
- ❖ Multicolor indicators
- ❖ Full color imaging
- ❖ Audio / Video mixer status indicators

UNIT 23, 12 FLOOR, BLOCK B, HI-TECH IND. CENTER, 491-501 CASTLE PEAK ROAD, TSUEN WAN, N.T. H.K.

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Tel : ( 852 ) 24149121, 24149149 Fax : ( 852 ) 24122879 email: icinfo@fbice.com web site : www.fbice.com

**Absolute Maximum Ratings TA = 25 °C**

| Parameter                          | Symbol | Value     | Units |
|------------------------------------|--------|-----------|-------|
| Continuous Forward Current         | IF     | 20        | mA    |
| Peak Forward Current               | IFM    | 50        | mA    |
| Reverse Current ( VR=5V )          | IR     | 10        | µa    |
| Reverse Voltage                    | VR     | 5         | V     |
| Power Dissipation                  | PD     | 100       | mW    |
| Operating Temperature Range        | TA     | -40 to 85 | °C    |
| Storage Temperature Range          | TSTG   | -40 to 85 | °C    |
| Lead Soldering Temperature (5 sec) | TSOL   | 260       | °C    |

**Optoelectic Characteristics : SUPER BRIGHT RED**

| Parameter                | Symbol | Max | Typ  | Unit   | Test    |
|--------------------------|--------|-----|------|--------|---------|
| Forward Voltage          | VF     | 2.6 | 2    | V      | IF=20mA |
| Luminous Intensity       | IV     |     | 1200 | mcd    | IF=20mA |
| Peak Emission Wavelength | λD     |     | 620  | nm     |         |
| View Angle               | 2θ1/2  |     | 30   | Degree |         |

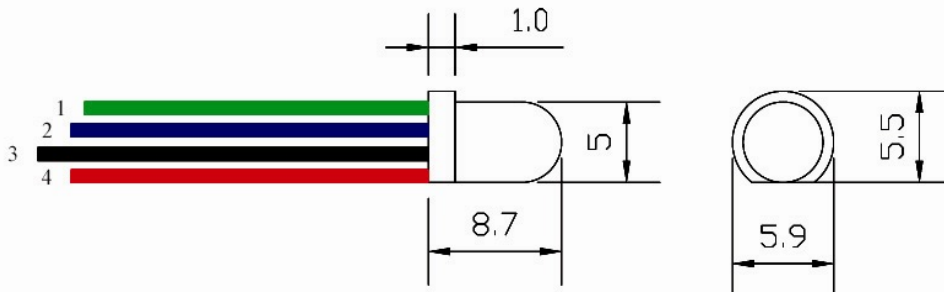
**Optoelectic Characteristics : SUPER BRIGHT GREEN**

| Parameter                | Symbol | Max | Typ  | Unit   | Test    |
|--------------------------|--------|-----|------|--------|---------|
| Forward Voltage          | VF     | 3.5 | 3.2  | V      | IF=20mA |
| Luminous Intensity       | IV     |     | 5000 | mcd    | IF=20mA |
| Peak Emission Wavelength | λD     |     | 520  | nm     |         |
| View Angle               | 2θ1/2  |     | 30   | Degree |         |

**Optoelectic Characteristics : SUPER BRIGHT BLUE**

| Parameter                | Symbol | Max | Typ  | Unit   | Test    |
|--------------------------|--------|-----|------|--------|---------|
| Forward Voltage          | VF     | 3.6 | 3.4  | V      | IF=20mA |
| Luminous Intensity       | IV     |     | 2000 | mcd    | IF=20mA |
| Peak Emission Wavelength | λD     |     | 470  | nm     |         |
| View Angle               | 2θ1/2  |     | 30   | Degree |         |

**OUTLINE DRAWING**



1. GREEN
2. BLUE
3. COMMON CATHODE
4. RED

LEADS ARE 0.48mm x 0.48mm square  
 LEAD SPACING IS 1.25mm  
 LEAD LENGTH IS 24mm to 28mm  
 All dimensions in millimeters  
 Tolerance is +/- 0.15mm