| 3.5x2.8x1.9mm Red & Pure Green & Blue Top SMD LED |
|---|
| OSTB8BS5C2B |

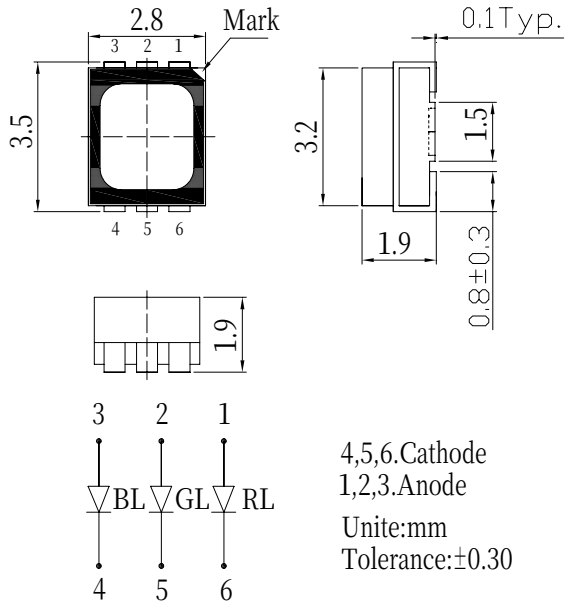
## ▪Features

- High Luminous PLCC6 Top SMD LEDs
- 3.5x2.8x1.9mm Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- White Diffused Type
- Higher Contrast by a black surface(RGB-Displays)

## ▪Applications

- Indoor and outdoor display(e.g. displays for traffic light writing displays)
- LED Chips can be controlled separately to display various colors including white
- Full Color Displays, RGB-Displays
- Backlighting (LCD, Switches keys, displays, Illuminated advertising, general lighting)
- Coupling into light guides

## ▪Outline Dimension

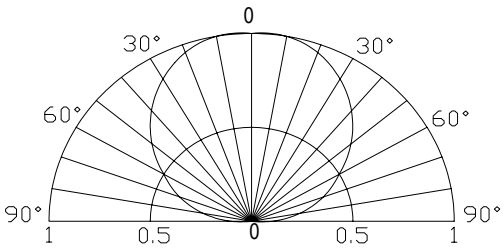



## ▪Absolute Maximum Rating (Ta=25℃)

| Item | Symbol | Value | | Unit |
|---|---|---|---|---|
| | | Red | Green/Blue | |
| DC Forward Current | $I_F$ | 70 | 50 | mA |
| Pulse Forward Current* | $I_{FP}$ | 120 | 120 | mA |
| Reverse Voltage | $V_R$ | 5 | 5 | V |
| Power Dissipation | $P_D$ | 182 | 180 | mW |
| Operating Temperature | Topr | -30 ~ +85 | | ℃ |
| Storage Temperature | Tstg | -40 ~ +100 | | ℃ |
| Lead Soldering Temperature | Tsol | 260℃/5sec | | - |

*Pulse width Max.10ms Duty ratio max 1/10

## ▪Directivity




## ▪Electrical -Optical Characteristics (Ta=25℃)

| Item | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| DC Forward Voltage | $V_F$ (R) | $I_F$=20mA | 1.8 | 2.1 | 2.6 | V |
| | $V_F$ (B/G) | $I_F$=20mA | 2.9 | 3.1 | 3.6 | V |
| DC Reverse Current | $I_R$ | $V_R$=5V | - | - | 10 | μA |
| Domi. Wavelength* | $\lambda_D$(Red) | $I_F$=20mA | 620 | 625 | 630 | nm |
| | $\lambda_D$(Green) | $I_F$=20mA | 520 | 525 | 530 | nm |
| | $\lambda_D$(Blue) | $I_F$=20mA | 465 | 470 | 475 | nm |
| Luminous Intensity* | Iv(Red) | $I_F$=20mA | 500 | 750 | - | mcd |
| | Iv(Green) | $I_F$=20mA | 1120 | 1560 | - | mcd |
| | Iv(Blue) | $I_F$=20mA | 220 | 400 | - | mcd |
| 50% Power Angle | $2\theta_{1/2}$ | $I_F$=20mA | - | 120 | - | deg |

*1 Tolerance of dominant wavelength is ±1nm

*2 Tolerance of luminous intensity is ±15%