

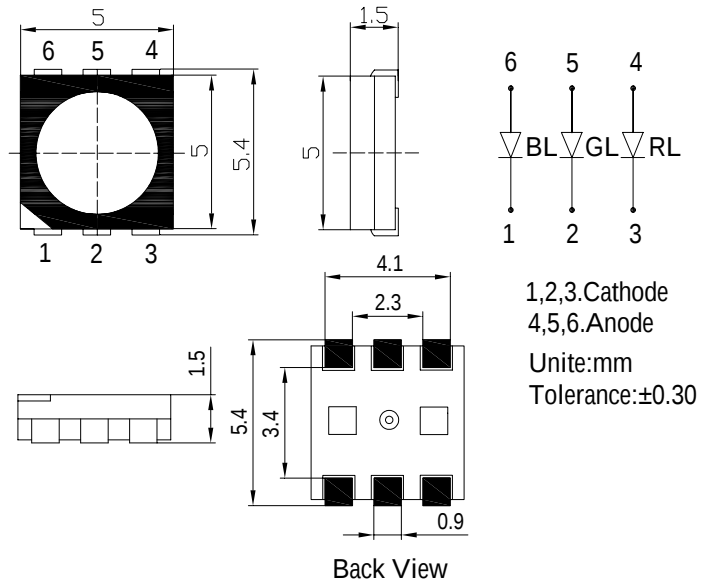
## ■Features

- High Luminous PLCC6 Top SMD LEDs
- 5x5x1.5mm 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 °C)

| Item                       | Symbol    | Value      |            | Unit |
|----------------------------|-----------|------------|------------|------|
|                            |           | Red        | Green/Blue |      |
| DC Forward Current         | $I_F$     | 50         | 30         | mA   |
| Pulse Forward Current*     | $I_{FP}$  | 120        | 100        | mA   |
| Reverse Voltage            | $V_R$     | 5          | 5          | V    |
| Power Dissipation          | $P_D$     | 130        | 108        | mW   |
| Operating Temperature      | $T_{opr}$ | -30 ~ +85  |            |      |
| Storage Temperature        | $T_{stg}$ | -40 ~ +100 |            |      |
| Lead Soldering Temperature | $T_{sol}$ | 260 /5sec  |            | -    |

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

## ■Electrical -Optical Characteristics (Ta=25 °C)

| 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   | $\mu A$ |
| 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* | $I_v(Red)$         | $I_F=20mA$ | 330  | 450  | -    | mcd     |
|                     | $I_v(Green)$       | $I_F=20mA$ | 500  | 700  | -    | mcd     |
|                     | $I_v(Blue)$        | $I_F=20mA$ | 150  | 250  | -    | mcd     |
| 50% Power Angle     | $2\theta_{1/2}$    | $I_F=20mA$ | -    | 120  | -    | deg     |

\*1 Tolerance of dominant wavelength is  $\pm 1nm$

\*2 Tolerance of luminous intensity is  $\pm 15\%$

## ■Directivity

