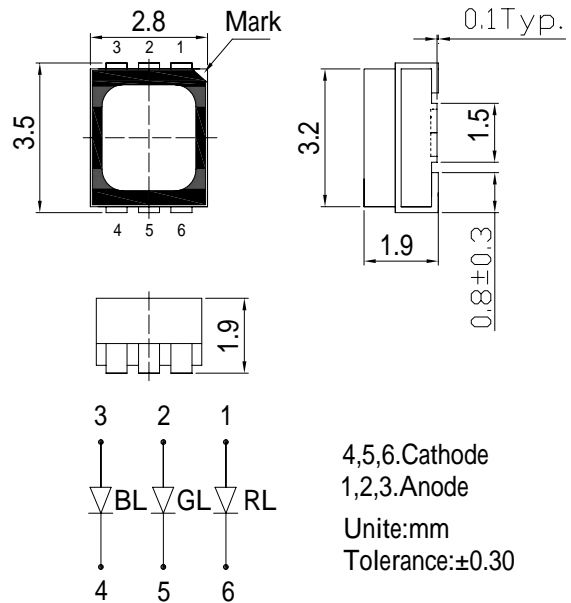


■Features

- 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)

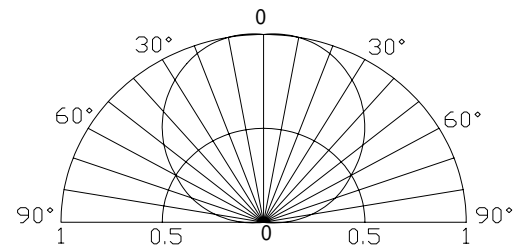
■Applications

- 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 °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

■Directivity

■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 | μA |
| Domi. Wavelength* | λ_D (Red) | $I_F=20mA$ | 620 | 625 | 630 | nm |
| | λ_D (Green) | $I_F=20mA$ | 520 | 525 | 530 | nm |
| | λ_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 $\pm 15\%$