

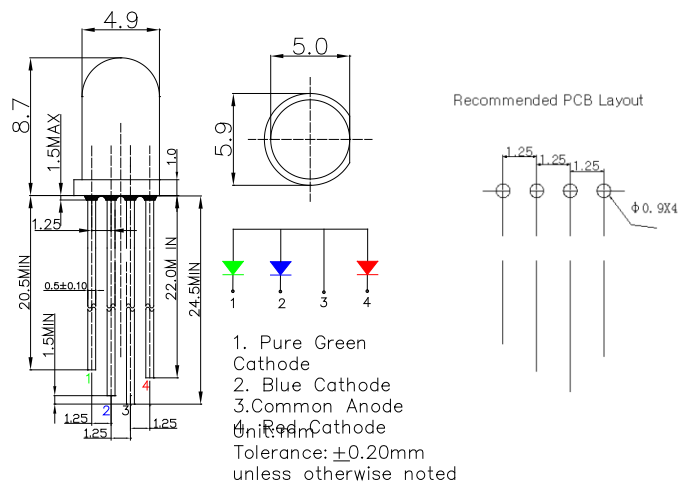
## ■Features

- High Luminous LEDs
- 5mm Round Standard Directivity
- White Diffused Type
- Common Anode Type

## ■Applications

- Toys
- Games
- Audio
- Other Lighting

## ■Outline Dimension



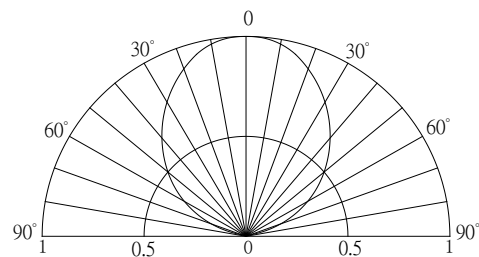
## ■Absolute Maximum Rating

( $T_a=25^\circ\text{C}$ )

| Item                       | Symbol    | Value                      |            | Unit             |
|----------------------------|-----------|----------------------------|------------|------------------|
|                            |           | Red                        | Blue/Green |                  |
| DC Forward Current         | $I_F$     | 30                         | 30         | mA               |
| Pulse Forward Current#     | $I_{FP}$  | 100                        | 100        | mA               |
| Reverse Voltage            | $V_R$     | 5                          | 5          | V                |
| Power Dissipation          | $P_D$     | 78                         | 108        | mW               |
| Operating Temperature      | $T_{opr}$ | $-30 \sim +85$             |            | $^\circ\text{C}$ |
| Storage Temperature        | $T_{stg}$ | $-40 \sim +100$            |            | $^\circ\text{C}$ |
| Lead Soldering Temperature | $T_{sol}$ | 260 $^\circ\text{C}$ /5sec |            | -                |

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

## ■Directivity



## ■Electrical -Optical Characteristics

( $T_a=25^\circ\text{C}$ )

| Item                 | Symbol                    | Condition         | Min. | Typ. | Max. | Unit          |
|----------------------|---------------------------|-------------------|------|------|------|---------------|
| DC Forward Voltage*1 | $V_F(R)$                  | $I_F=20\text{mA}$ | -    | 2.1  | 2.4  | V             |
|                      | $V_F(B/G)$                | $I_F=20\text{mA}$ | -    | 2.9  | 3.4  | V             |
| DC Reverse Current   | $I_R$                     | $V_R=5\text{V}$   | -    | -    | 10   | $\mu\text{A}$ |
| Domi. Wavelength*2   | $\lambda_D(\text{Red})$   | $I_F=20\text{mA}$ | 620  | 625  | 630  | nm            |
|                      | $\lambda_D(\text{Blue})$  | $I_F=20\text{mA}$ | 465  | 470  | 475  | nm            |
|                      | $\lambda_D(\text{Green})$ | $I_F=20\text{mA}$ | 520  | 525  | 530  | nm            |
| Luminous Intensity*3 | $I_v(\text{Red})$         | $I_F=20\text{mA}$ | 500  | 750  | -    | mcd           |
|                      | $I_v(\text{Blue})$        | $I_F=20\text{mA}$ | 220  | 330  | -    | mcd           |
|                      | $I_v(\text{Green})$       | $I_F=20\text{mA}$ | 1120 | 1560 | -    | mcd           |
| 50% Power Angle      | $2\theta_{1/2}$           | $I_F=20\text{mA}$ | -    | 100  | -    | deg           |

\*1 Tolerance of measurements of forward voltage is  $\pm 0.1\text{V}$

\*2 Tolerance of measurements of dominant wavelength is  $\pm 1\text{nm}$

\*3 Tolerance of measurements of luminous intensity is  $\pm 15\%$

**LED & Application Technologies**

