

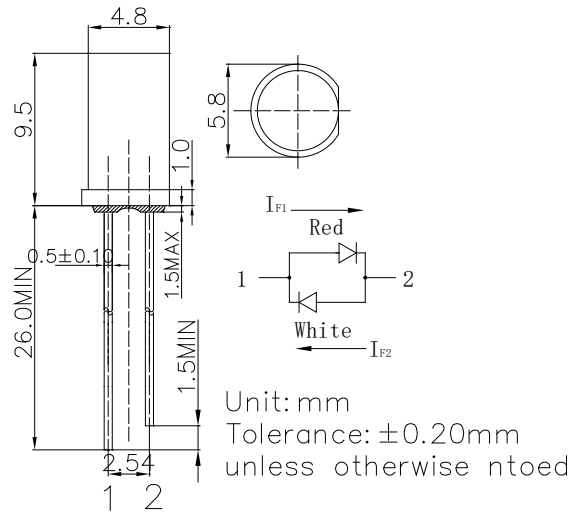
## ■Features

- High Luminous LEDs
- 5mm Cylinder Standard Directivity
- Long Lifetime Operation
- UV Resistant Epoxy
- White Diffused Type
- Bi-polar Type

## ■Applications

- Toys
- Audio
- Games
- Other Lighting

## ■Outline Dimension



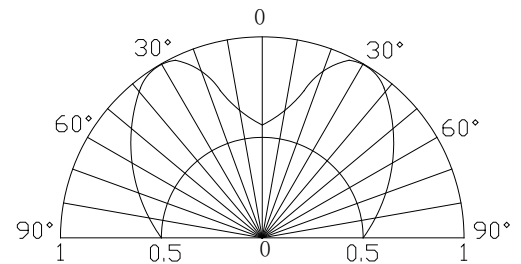
## ■Absolute Maximum Rating

(Ta=25°C)

| Item                       | Symbol           | Value      |       | Unit |
|----------------------------|------------------|------------|-------|------|
|                            |                  | Red        | White |      |
| DC Forward Current         | I <sub>F</sub>   | 50         | 30    | mA   |
| Pulse Forward Current#     | I <sub>FP</sub>  | 100        | 100   | mA   |
| Reverse Voltage            | V <sub>R</sub>   | 5          | 5     | V    |
| Power Dissipation          | P <sub>D</sub>   | 130        | 102   | mW   |
| Operating Temperature      | T <sub>opr</sub> | -30 ~ +85  |       | °C   |
| Storage Temperature        | T <sub>stg</sub> | -40 ~ +100 |       | °C   |
| Lead Soldering Temperature | T <sub>sol</sub> | 260°C/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*1 | V <sub>F</sub> (Red)   | I <sub>F</sub> =20mA | -    | 2.1  | 2.6  | V    |
|                      | V <sub>F</sub> (White) | I <sub>F</sub> =20mA | -    | 2.9  | 3.4  | V    |
| DC Reverse Current   | I <sub>R</sub>         | V <sub>R</sub> =5V   | -    | -    | 10   | μA   |
| Domi. Wavelength*2   | λ <sub>D</sub> (Red)   | I <sub>F</sub> =20mA | 620  | 625  | 630  | nm   |
|                      | CCT(White)             | I <sub>F</sub> =20mA | 2700 | 3000 | 3300 | K    |
| Luminous Intensity*3 | I <sub>v</sub> (Red)   | I <sub>F</sub> =20mA | 330  | 500  | -    | mcd  |
|                      | I <sub>v</sub> (White) | I <sub>F</sub> =20mA | 750  | 1120 | -    | mcd  |
| 50% Power Angle      | 2θ <sub>1/2</sub>      | I <sub>F</sub> =20mA | -    | 180  | -    | deg  |

\*1 Tolerance of measurements of color temperature ±10%

\*2 Tolerance of measurements of dominant wavelength is ±1nm

\*3 Tolerance of measurements of luminous intensity is ±15%

\*4 Tolerance of measurements of forward voltage is ±0.1V