

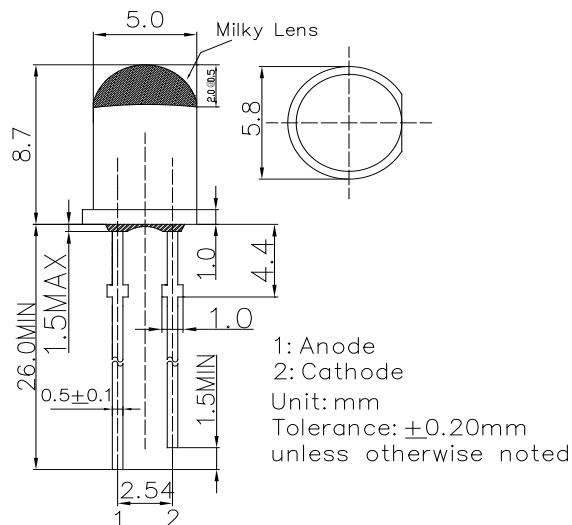
## ■Features

- High Luminous Intensity
- 5mm Round Standard Directivity
- UV Resistant Epoxy
- Water Clear Body with Milky Top Lens

## ■Applications

- Electronic Signs and Signals
- Small Area Illuminations
- Back Lighting
- Other Lighting

## ■Outline Dimension



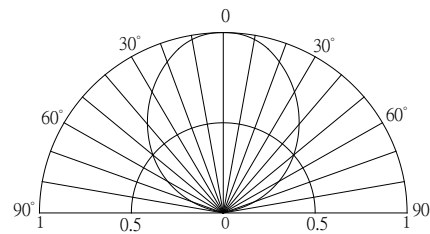
## ■Absolute Maximum Rating

(Ta=25°C)

| Item                       | Symbol           | Value      |       | Unit |
|----------------------------|------------------|------------|-------|------|
|                            |                  | W/M/BL/PG  | Y/O/R |      |
| DC Forward Current         | I <sub>F</sub>   | 30         | 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>   | 102        | 78    | 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)

| Part Number | Color      |    |                                                                                     | V <sub>F</sub> (V)*  |      |      | I <sub>R</sub> (μA) | I <sub>v</sub> (mcd)* |      |      | CCT(K)/Wd(nm)*             |      |      | 2θ1/2(deg) |
|-------------|------------|----|-------------------------------------------------------------------------------------|----------------------|------|------|---------------------|-----------------------|------|------|----------------------------|------|------|------------|
|             |            |    |                                                                                     | Min.                 | Typ. | Max. | Max.                | Min.                  | Typ. | Max. | Min.                       | Typ. | Max. | Typ.       |
|             |            |    |                                                                                     | I <sub>F</sub> =20mA |      |      | V <sub>R</sub> =5V  | I <sub>F</sub> =20mA  |      |      |                            |      |      |            |
| OSW5DK51A5C | Cool White | W  |                                                                                     | -                    | 2.9  | 3.4  | 10                  | 4200                  | 5800 | -    | 8500-18000K(X:0.27,Y:0.28) |      |      | 100        |
| OSW4DK51A5C | Pure White | W  |                                                                                     | -                    | 2.9  | 3.4  | 10                  | 4200                  | 5800 | -    | 5500-8500K(X:0.31,Y:0.33)  |      |      | 100        |
| OSM5DK51A5C | Warm White | M  |  | -                    | 2.9  | 3.4  | 10                  | 3000                  | 4200 | -    | 2700-3200K(X:0.44,Y:0.41)  |      |      | 100        |
| OSB5SA51A5C | Blue       | BL |  | -                    | 2.9  | 3.4  | 10                  | 1560                  | 2180 | -    | 465                        | 470  | 475  | 100        |
| OSG5DA51A5C | Pure Green | PG |  | -                    | 2.9  | 3.4  | 10                  | 2180                  | 3000 | -    | 520                        | 525  | 530  | 100        |
| OS5YEA51A5C | Yellow     | Y  |  | -                    | 2.1  | 2.6  | 10                  | 2180                  | 3000 | -    | 585                        | 590  | 595  | 100        |
| OS5OPM51A5C | Orange     | O  |  | -                    | 2.1  | 2.6  | 10                  | 2180                  | 3000 | -    | 600                        | 605  | 610  | 100        |
| OS5REA51A5C | Red        | R  |  | -                    | 2.1  | 2.6  | 10                  | 2180                  | 3000 | -    | 620                        | 625  | 630  | 100        |

\*1 Tolerance of measurements of chromaticity coordinate is ±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