

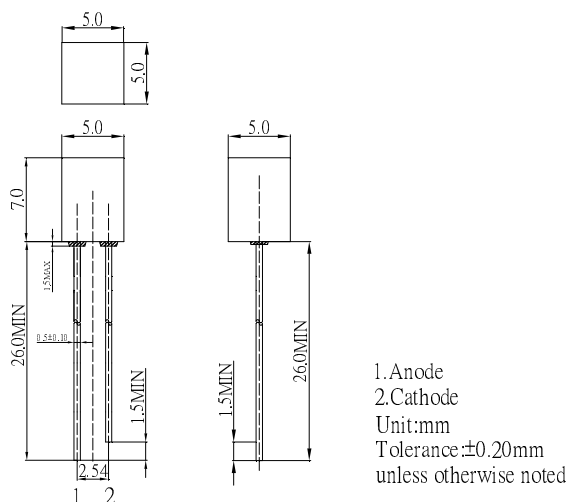
## ■Features

- High Luminous Intensity
- 5x5x7mm Standard Directivity
- Long Lifetime Operation
- Superior UV Resistance
- Water Clear Type

## ■Applications

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

## ■Outline Dimension



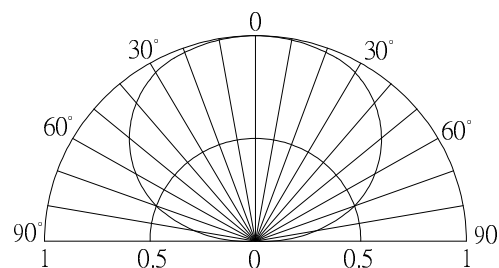
## ■Absolute Maximum Rating

(Ta=25°C)

| Item                       | Symbol           | Value      |       | Unit |
|----------------------------|------------------|------------|-------|------|
|                            |                  | W/M/B/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>   | 108        | 78    | mW   |
| Operating Temperature      | T <sub>opr</sub> | -40 ~ +85  |       | °C   |
| Storage Temperature        | T <sub>stg</sub> | -40 ~ +85  |       | °C   |
| Lead Soldering Temperature | T <sub>sol</sub> | 260°C/5sec |       | -    |

#Pulse width Max 0.1ms, 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)* |      |      | λD (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  |      |      | I <sub>F</sub> =20mA       |      |      |            |
| OSW5DK7NE1B | White      | W  |                                                                                     | 2.8                  | 3.1  | 3.6  | 10                  | 1560                  | 1800 | -    | 8000-18000K(X:0.27,Y:0.28) |      |      | 140        |
| OSM5DK7NE1B | Warm White | M  |                                                                                     | 2.8                  | 3.1  | 3.6  | 10                  | 750                   | 1120 | -    | 2700-3200K(X:0.45,Y:0.41)  |      |      | 140        |
| OSB5SA7NE1B | Blue       | B  |  | 2.8                  | 3.1  | 3.6  | 10                  | 330                   | 500  | -    | 455                        | 460  | 465  | 140        |
| OSG5DA7NE1B | Pure Green | PG |  | 2.8                  | 3.1  | 3.6  | 10                  | 1560                  | 2000 | -    | 520                        | 525  | 530  | 140        |
| OSY5PA7NE1B | Yellow     | Y  |  | 1.8                  | 2.1  | 2.6  | 10                  | 750                   | 1000 | -    | 585                        | 590  | 595  | 140        |
| OSO5PA7NE1B | Orange     | O  |  | 1.8                  | 2.1  | 2.6  | 10                  | 750                   | 1000 | -    | 600                        | 605  | 610  | 140        |
| OSR5PA7NE1B | Red        | R  |  | 1.8                  | 2.1  | 2.6  | 10                  | 750                   | 1000 | -    | 620                        | 625  | 630  | 140        |

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

\*2 Tolerance of measurements of chromaticity coordinate is ±10%

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

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