

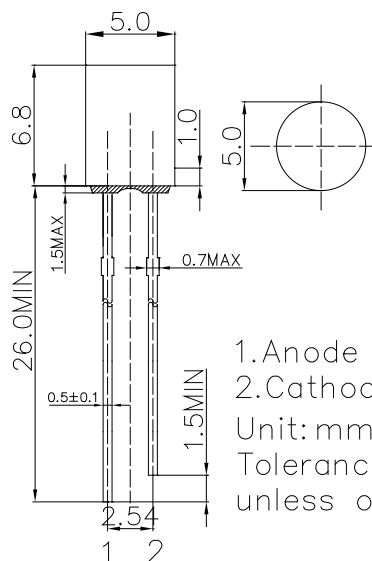
## ■Features

- High Luminous Intensity
- Low Power Consumption
- UV Resistant Epoxy
- Specified at IF = 1 mA
- Water Clear Type

## ■Applications

- Background illumination
- Communications equipment
- Low power DC circuits
- General lighting purposes

## ■Outline Dimension

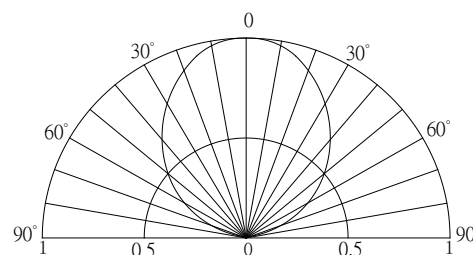


## ■Absolute Maximum Rating

(Ta=25°C)

| Item                       | Symbol | Value      |       | Unit |
|----------------------------|--------|------------|-------|------|
|                            |        | W/M/B/PG   | Y/O/R |      |
| DC Forward Current         | IF     | 30         | 30    | mA   |
| Pulse Forward Current#     | IFP    | 100        | 100   | mA   |
| Reverse Voltage            | VR     | 5          | 5     | V    |
| Power Dissipation          | PD     | 102        | 66    | mW   |
| Operating Temperature      | Topr   | -30 ~ +85  |       | °C   |
| Storage Temperature        | Tstg   | -40 ~ +100 |       | °C   |
| Lead Soldering Temperature | Tsol   | 260°C/5sec |       | -    |

## ■Directivity



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

## ■Electrical -Optical Characteristics

(Ta=25°C)

| Part Number     | Color      |    |  | VF (V) |      |      | IR(μA) | IV(mcd) |      |      | λD(nm)                     |      |      | θ1/2(deg) |
|-----------------|------------|----|--|--------|------|------|--------|---------|------|------|----------------------------|------|------|-----------|
|                 |            |    |  | Min.   | Typ. | Max. | Max.   | Min.    | Typ. | Max. | Min.                       | Typ. | Max. | Typ.      |
|                 |            |    |  | IF=1mA |      |      | VR=5V  | IF=1mA  |      |      | IF=1mA                     |      |      |           |
| OSW54K5GA1B-1MA | Cool White | W  |  | -      | 2.8  | 3.4  | 10     | 220     | 330  | -    | 8500-18000K(X:0.27,Y:0.28) |      |      | 100       |
| OSW44K5GA1B-1MA | Pure White | W  |  | -      | 2.8  | 3.4  | 10     | 220     | 330  | -    | 5500-8500K(X:0.31,Y:0.33)  |      |      | 100       |
| OSM54K5GA1B-1MA | Warm White | M  |  | -      | 2.8  | 3.4  | 10     | 220     | 330  | -    | 2700-3200K(X:0.45,Y:0.41)  |      |      | 100       |
| OSB5DA5GA1B-1MA | Blue       | B  |  | -      | 2.8  | 3.4  | 10     | 100     | 150  | -    | 465                        | 470  | 475  | 100       |
| OSG58A5GA1B-1MA | Pure Green | PG |  | -      | 2.8  | 3.4  | 10     | 220     | 330  | -    | 520                        | 525  | 530  | 100       |
| OSY5PA5GA1B-1MA | Yellow     | Y  |  | -      | 1.8  | 2.2  | 10     | 150     | 220  | -    | 585                        | 590  | 595  | 100       |
| OSO5PA5GA1B-1MA | Orange     | O  |  | -      | 1.8  | 2.2  | 10     | 150     | 220  | -    | 600                        | 605  | 610  | 100       |
| OSR5PA5GA1B-1MA | Red        | R  |  | -      | 1.8  | 2.2  | 10     | 150     | 220  | -    | 620                        | 625  | 630  | 100       |

\*1 Tolerance of measurements of chromaticity coordinate is  $\pm 10\%$  \*2 Tolerance of measurements of dominant wavelength is  $\pm 1$  nm

\*3 Tolerance of measurements of luminous intensity is  $\pm 15\%$  \*4 Tolerance of measurements of forward voltage is  $\pm 0.1$  V