

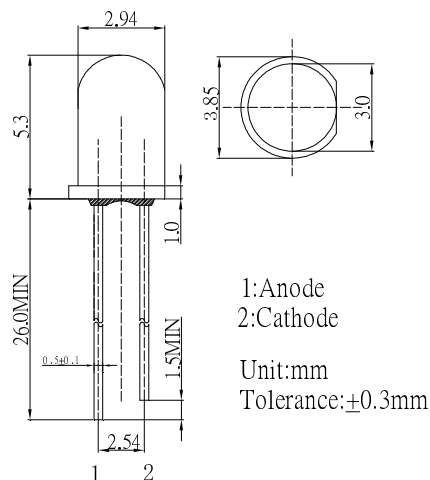
## ■ Features

- Low Current 1mA Operation
- 3mm Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

## ■ Applications

- Back Light
- Small Area Illuminations
- Toys & Games
- General Purpose

## ■ Outline Dimension



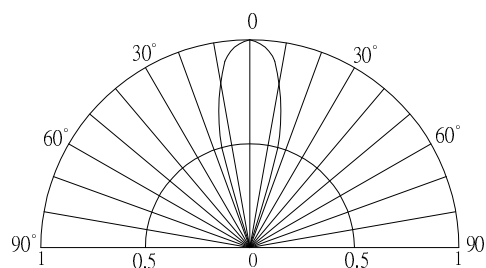
## ■ Absolute Maximum Rating

(Ta=25°C)

| Item                       | Symbol           | Value      |          | Unit |
|----------------------------|------------------|------------|----------|------|
|                            |                  | W/M/B/PG   | YG/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        | 66       | 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) |      |      | λ <sub>D</sub> (nm) |      |      | θ1/2 (deg) |
|-----------------|--------------|----|--|---------------------|------|------|---------------------|----------------------|------|------|---------------------|------|------|------------|
|                 |              |    |  | Min.                | Typ. | Max. | Max.                | Min.                 | Typ. | Max. | Min.                | Typ. | Max. | Typ.       |
|                 |              |    |  | I <sub>F</sub> =1mA |      |      | V <sub>R</sub> =5V  | I <sub>F</sub> =1mA  |      |      | I <sub>F</sub> =1mA |      |      |            |
| OSW5DK3131A-1MA | White        | W  |  | 2.6                 | 2.8  | 3.4  | 10                  | 750                  | 1120 | -    | CCT:8000-18000K     |      |      | 30         |
| OSM5DK3131A-1MA | Warm White   | M  |  | 2.6                 | 2.8  | 3.4  | 10                  | 500                  | 750  | -    | CCT:2700-3200K      |      |      | 30         |
| OSB5SA3131A-1MA | Blue         | B  |  | 2.6                 | 2.8  | 3.4  | 10                  | 330                  | 500  | -    | 465                 | 470  | 475  | 30         |
| OSG5DA3131A-1MA | Pure Green   | PG |  | 2.6                 | 2.8  | 3.4  | 10                  | 750                  | 1120 | -    | 520                 | 525  | 530  | 30         |
| OSG8HA3131A-1MA | Yellow Green | YG |  | 1.5                 | 1.8  | 2.2  | 10                  | 68                   | 100  | -    | 565                 | 570  | 575  | 30         |
| OSY5JA3131A-1MA | Yellow       | Y  |  | 1.5                 | 1.8  | 2.2  | 10                  | 120                  | 150  | -    | 585                 | 590  | 595  | 30         |
| OSO5JA3131A-1MA | Orange       | O  |  | 1.5                 | 1.8  | 2.2  | 10                  | 120                  | 150  | -    | 600                 | 605  | 610  | 30         |
| OSR5JA3131A-1MA | Red          | R  |  | 1.5                 | 1.8  | 2.2  | 10                  | 120                  | 150  | -    | 620                 | 625  | 630  | 30         |

\*1 Tolerance of dominant wavelength is ±1nm

\*2 Tolerance of luminous intensity is ±15%