

## ■Features

- Single chip
- Super high brightness of reverse mount LED
- Compact package outline  
(L x W x T) of 3.2mm x 1.6mm x 0.8mm
- Compatible to IR reflow soldering.
- Water Clear Type Except White&Warm White

## ■Applications

- Backlighting (switches, keys, etc.)
- Marker lights (e.g. steps, exit ways, etc.)

## ■Absolute Maximum Rating

(Ta=25°C)

| Item                       | Symbol          | Value       |              | Unit |
|----------------------------|-----------------|-------------|--------------|------|
|                            |                 | W5/M5/B5/G5 | G8/Y5//O5/R5 |      |
| 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      | Topr            | -40 ~ +85   |              | °C   |
| Storage Temperature        | Tstg            | -40~ +85    |              | °C   |
| Lead Soldering Temperature | Tsol            | 260°C/10sec |              | -    |

\*Pulse width Max 0.1ms, Duty ratio max 1/10

## ■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 |      |      |            |
| OSW51206E1N-0.8T | White        | W5 | 2.8                  | 3.1  | 3.6  | 10                  | 500                  | 700  | -    | 8000-18000K          |      |      | 140        |
| OSM51206E1N-0.8T | Warm White   | M5 | 2.8                  | 3.1  | 3.6  | 10                  | 500                  | 700  | -    | 2700-3300K           |      |      | 140        |
| OSB51206E1N-0.8T | Blue         | B5 | 2.8                  | 3.1  | 3.6  | 10                  | 100                  | 150  | -    | 460                  | 465  | 475  | 140        |
| OSG51206E1N-0.8T | True Green   | G5 | 2.8                  | 3.1  | 3.6  | 10                  | 500                  | 700  | -    | 515                  | 525  | 530  | 140        |
| OSG81206E1N-0.8T | Yellow Green | G8 | 1.8                  | 2.1  | 2.6  | 10                  | 20                   | 35   | -    | 565                  | 570  | 575  | 140        |
| OSY51206E1N-0.8T | Yellow       | Y5 | 1.8                  | 2.1  | 2.6  | 10                  | 80                   | 100  | -    | 585                  | 590  | 595  | 140        |
| OSO51206E1N-0.8T | Orange       | O5 | 1.8                  | 2.1  | 2.6  | 10                  | 80                   | 100  | -    | 600                  | 605  | 610  | 140        |
| OSR51206E1N-0.8T | Red          | R5 | 1.8                  | 2.1  | 2.6  | 10                  | 80                   | 100  | -    | 615                  | 625  | 630  | 140        |

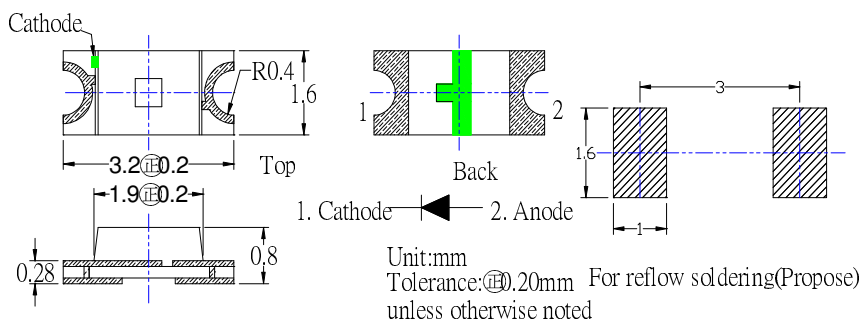
\*1 Tolerance of measurements of chromaticity coordinate is ±10%

\*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

## ■Outline Dimension



## ■Directivity

