

## ■Description

This LED is built with two different or same color LEDs. It builds with resistors to operate with wide operation voltage of DC3-15V.

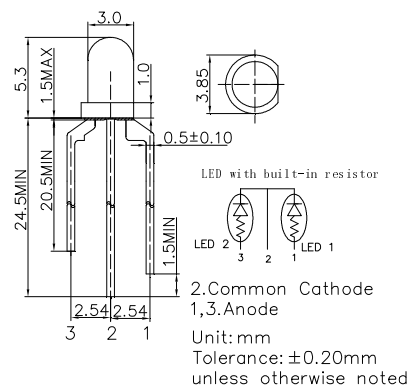
## ■Features

- Wide Input Voltage
- Cost Saving and Space Saving
- White Diffused type
- Bi-color Common Cathode Type

## ■Applications

- Toys/Game/Audio
- TTL/Cmos Compatible
- Arduino/Pi Pico/Steam Kit
- Other electronics products

## ■Outline Dimension



## ■Absolute Maximum Rating

(Ta=25°C)

| Item                       | Symbol           | Value      | Unit |
|----------------------------|------------------|------------|------|
| DC Forward Voltage         | V <sub>F</sub>   | 15         | V    |
| Reverse Voltage            | V <sub>R</sub>   | 12         | V    |
| Power Dissipation          | P <sub>d</sub>   | 190        | 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 | -    |

## ■Electrical -Optical Characteristics

(Ta=25°C)

| Color      | I <sub>F</sub> (mA) |      |      | I <sub>v</sub> (mcd)* |      |      | λD(nm)/CCT(K)*  |      |      | θ1/2(deg) |
|------------|---------------------|------|------|-----------------------|------|------|-----------------|------|------|-----------|
|            | Min.                | Typ. | Max. | Min.                  | Typ. | Max. | Min.            | Typ. | Max. | Typ.      |
|            | V <sub>F</sub> =9V  |      |      |                       |      |      |                 |      |      |           |
| Red        | -                   | 7.5  | -    | -                     | 400  | -    | 620             | 625  | 630  | 40        |
| Yellow     | -                   | 7.5  | -    | -                     | 400  | -    | 585             | 590  | 595  |           |
| Blue       | -                   | 8.0  | -    | -                     | 300  | -    | 465             | 470  | 475  |           |
| Pure Green | -                   | 8.0  | -    | -                     | 1560 | -    | 520             | 525  | 530  |           |
| Cool White | -                   | 8.0  | -    | -                     | 1560 | -    | CCT:8000-18000K |      |      |           |
| Warm White | -                   | 8.0  | -    | -                     | 1560 | -    | CCT:2700-3300K  |      |      |           |

## ■Part Number

| Color      | Red            | Yellow         | Pure Green     | Blue           |
|------------|----------------|----------------|----------------|----------------|
| Red        | OSRRMC3142A-VV | OSRYMC3142A-VV | OSRPMC3142A-VV | OSRBMC3142A-VV |
| Yellow     | OSRYMC3142A-VV | OSYYMC3142A-VV | OSYPMC3142A-VV | OSYBMC3142A-VV |
| Pure Green | OSRPMC3142A-VV | OSYPMC3142A-VV | OSPPDC3142A-VV | OSPBDC3142A-VV |
| Blue       | OSRBMC3142A-VV | OSYBMC3142A-VV | OSPBDC3142A-VV | OSBBDC3142A-VV |
| Cool White | OSRPMC3142A-VV | OSYPMC3142A-VV | OSPWDC3142A-VV | OSBWDC3142A-VV |
| Warm White | OSRMMC3142A-VV | OSYMMC3142A-VV | OSPMDC3142A-VV | OSBMDC3142A-VV |

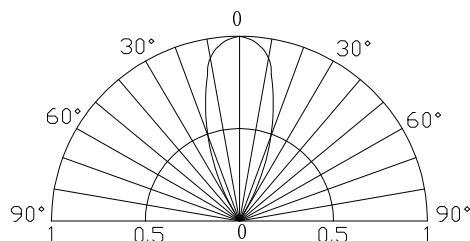
\*1 Tolerance of measurements of chromaticity coordinates is ±10%

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

\*2 Tolerance of measurements of dominant wavelength is ±1nm

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

## ■Directivity



## ■Optical Characteristic Curves

