

■ 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.

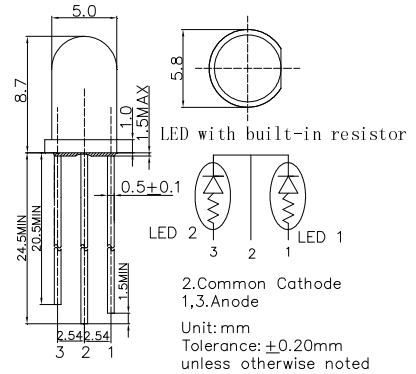
■ Features

- Wide Input Voltage
- Cost Saving and Space Saving
- Water Clear Type
- Bi-color Common Cathode Type

■ Applications

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

■ Outline Dimension

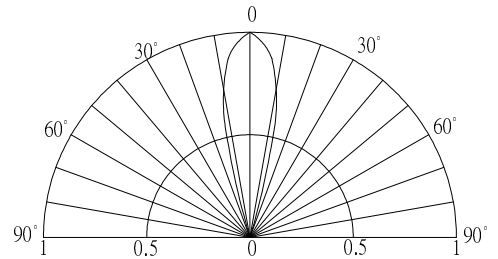


■ Absolute Maximum Rating

(Ta=25°C)

| Item | Symbol | Value | Unit |
|----------------------------|------------------|------------|------|
| DC Forward Voltage | V _F | 15 | V |
| Reverse Voltage | V _R | 12 | V |
| Power Dissipation | P _D | 190 | mW |
| Operating Temperature | T _{opr} | -30 ~ +85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +100 | °C |
| Lead Soldering Temperature | T _{sol} | 260°C/5sec | - |

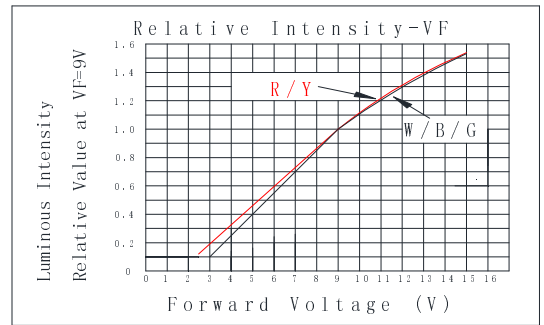
■ Directivity



■ Electrical -Optical Characteristics (Ta=25°C)

| Color | I _F (mA) | | | I _v (mcd)* | | | λD(nm)/CCT(K)* | | | θ1/2(deg) |
|------------|---------------------|------|------|-----------------------|------|------|-----------------|------|------|-----------|
| | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Typ. |
| | V _F =9V | | | | | | | | | |
| Red | - | 7.5 | - | - | 3000 | - | 620 | 625 | 630 | 30 |
| Yellow | - | 7.5 | - | - | 3000 | - | 585 | 590 | 595 | |
| Blue | - | 8.0 | - | - | 2180 | - | 465 | 470 | 475 | |
| Pure Green | - | 8.0 | - | - | 5800 | - | 520 | 525 | 530 | |
| Cool White | - | 8.0 | - | - | 5800 | - | CCT:8500-18000K | | | |
| Warm White | - | 8.0 | - | - | 5800 | - | CCT:2700-3300K | | | |

■ Optical Characteristic Curves



■ Part Number

| Color | Red | Yellow | Pure Green | Blue |
|------------|----------------|----------------|----------------|----------------|
| Red | OSRRMC5A31A-VV | OSRYMC5A31A-VV | OSRPMC5A31A-VV | OSRBMC5A31A-VV |
| Yellow | OSRYMC5A31A-VV | OSYYMC5A31A-VV | OSYPMC5A31A-VV | OSYBMC5A31A-VV |
| Pure Green | OSRPMC5A31A-VV | OSYPMC5A31A-VV | OSPDC5A31A-VV | OSPBDC5A31A-VV |
| Blue | OSRBMC5A31A-VV | OSYBMC5A31A-VV | OSPBDC5A31A-VV | OSBBDC5A31A-VV |
| Cool White | OSRWMC5A31A-VV | OSYWMC5A31A-VV | OSPWDC5A31A-VV | OSBWDC5A31A-VV |
| Warm White | OSRMMC5A31A-VV | OSYMMC5A31A-VV | OSPMDC5A31A-VV | OSBMDC5A31A-VV |

*1 Tolerance of measurements of chromaticity coordinates 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