OptoSupply

| 5mm Round Red & Blue & Pure Green LED |
|---|
| OSTAMC5B32A |

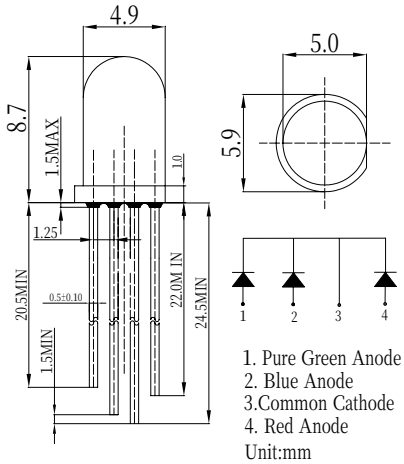
## ▪Features

- High Luminous LEDs
- 5mm Round Standard Directivity
- Superior Weather-resistance
- White Diffused Type
- Common Cathode Type

## ▪Applications

- Toys
- Games
- Audio
- Other Lighting

## ▪Outline Dimension




1. Pure Green Anode
2. Blue Anode
3.Common Cathode
4. Red Anode

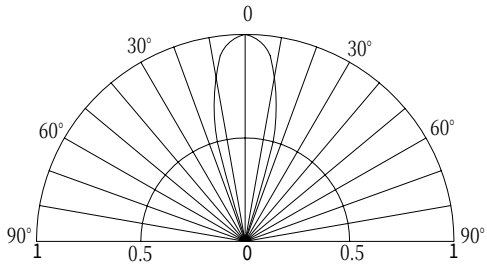
Unit:mm
Tolerance:±0.3mm

## ▪Absolute Maximum Rating (Ta=25℃)

| Item | Symbol | Value | | Unit |
|---|---|---|---|---|
| | | Red | Blue/Green | |
| DC Forward Current | $I_F$ | 50 | 30 | mA |
| Pulse Forward Current* | $I_{FP}$ | 120 | 100 | mA |
| Reverse Voltage | $V_R$ | 5 | 5 | V |
| Power Dissipation | $P_D$ | 120 | 108 | mW |
| Operating Temperature | Topr | -30 ~ +85 | | ℃ |
| Storage Temperature | Tstg | -40 ~ +100 | | ℃ |
| Lead Soldering Temperature | Tsol | 260℃/5sec | | - |

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

## ▪Directivity




## ▪Electrical -Optical Characteristics (Ta=25℃)

| Item | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| DC Forward Voltage | $V_F$ (R) | $I_F$=20mA | 1.8 | 2.1 | 2.4 | V |
| | $V_F$ (B/G) | $I_F$=20mA | 2.9 | 3.1 | 3.6 | V |
| DC Reverse Current | $I_R$ | $V_R$=5V | - | - | 10 | μA |
| Domi. Wavelength* | $\lambda_D$ (Red) | $I_F$=20mA | 619 | 624 | 629 | nm |
| | $\lambda_D$ (Blue) | $I_F$=20mA | 465 | 470 | 475 | nm |
| | $\lambda_D$ (Green) | $I_F$=20mA | 520 | 525 | 530 | nm |
| Luminous Intensity* | Iv (Red) | $I_F$=20mA | - | 4200 | - | mcd |
| | Iv (Blue) | $I_F$=20mA | - | 2000 | - | mcd |
| | Iv (Green) | $I_F$=20mA | - | 4200 | - | mcd |
| 50% Power Angle | $2\theta_{1/2}$ | $I_F$=20mA | - | 30 | - | deg |

*1 Tolerance of dominant wavelength is ±1nm

*2 Tolerance of luminous intensity is ±15%



ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES