OptoSupply
Light It Up

# Deluxe Power Super Flux Red LED

## OSR7CAZ2C1P

## ▪Features

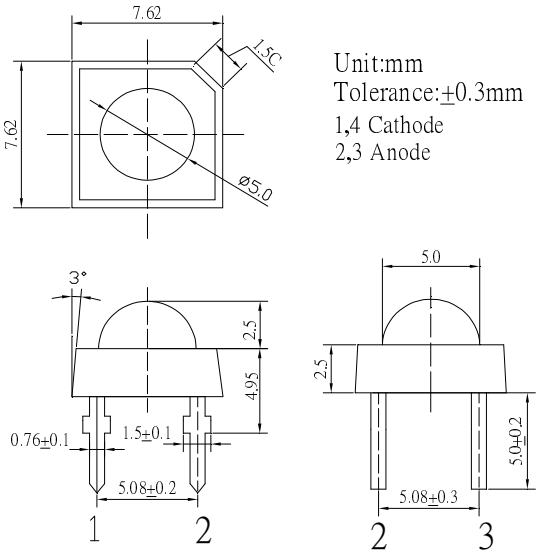
- High Luminous Super Flux Output
- 5 ø Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

## ▪Applications

- Green House Applications
- Red : Blue LED Iv Ratio is 8:1*

*The ratio is summarized by the photosynthesis test on Phalaenopsis and provided from plant workshop in Taiwan.

## ▪Outline Dimension



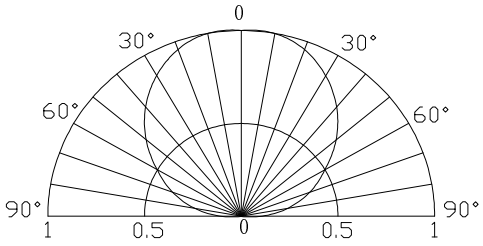

Unit:mm
Tolerance:±0.3mm
1,4 Cathode
2,3 Anode

## ▪Absolute Maximum Rating (Ta=25℃)

| Item | Symbol | Value | Unit |
|---|---|---|---|
| DC Forward Current | $I_F$ | 70 | mA |
| Pulse Forward Current* | $I_{FP}$ | 120 | mA |
| Reverse Voltage | $V_R$ | 5 | V |
| Power Dissipation | $P_D$ | 182 | 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 | $V_F$ | $I_F$=70mA | 2.0 | 2.3 | 2.6 | V |
| DC Reverse Current | $I_R$ | $V_R$=5V | - | - | 10 | μA |
| Peak Wavelength* | $\lambda_p$ | $I_F$=70mA | 650 | 660 | 670 | nm |
| Luminous Intensity* | Iv | $I_F$=70mA | 2180 | 3000 | - | mcd |
| 50% Power Angle | $2\theta_{1/2}$ | $I_F$=70mA | - | 120 | - | deg |

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

*2 Tolerance of measurements of luminous intensity is ±15%

*3 Tolerance of measurements of forward voltage is±0.1V

## ■Maximum Forward Current