OptoSupply
Light It Up

# Deluxe Power 5mm Round Commercial Red LED

## OSR5CA5111P

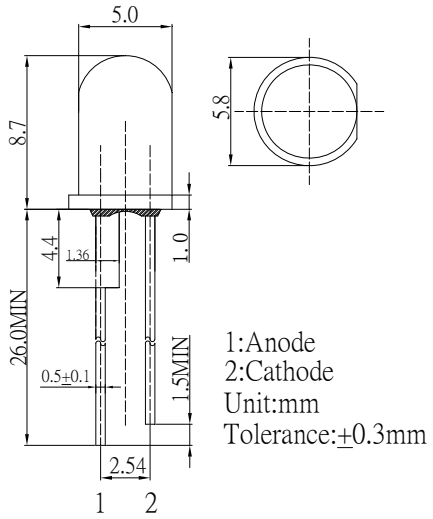
## ▪Features

- High Luminous LEDs
- 5mm Standard Directivity
- Long Lifetime Operation
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

## ▪Applications

- Signage and channel letter
- Decorating and entertainment lighting
- Architectural lighting
- Outdoor/Indoor applications
- Backlighting/Other Lighting

## ▪Outline Dimension

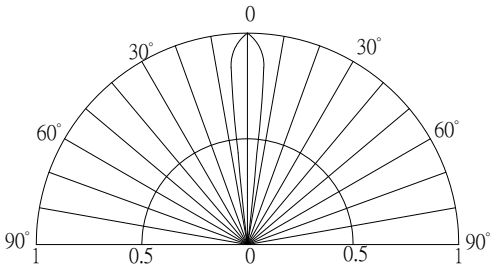



## ▪Absolute Maximum Rating (Ta=25℃)

| 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

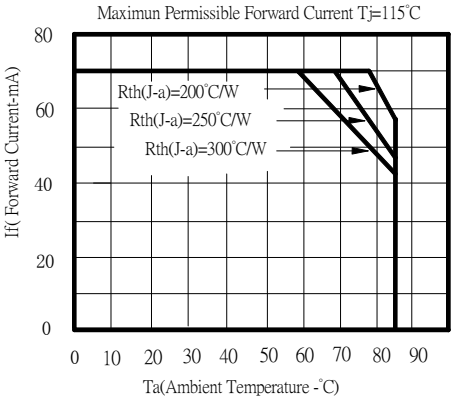



## ▪Electrical -Optical Characteristics (Ta=25℃)

| 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 |
| Domi. Wavelength* | $\lambda_D$ | $I_F$=70mA | 619 | 624 | 629 | nm |
| Luminous Intensity* | Iv | $I_F$=70mA | 40000 | 55000 | - | mcd |
| 50% Power Angle | $2\theta_{1/2}$ | $I_F$=70mA | - | 15 | - | deg |

*1 Tolerance of dominant wavelength is ±1nm
*2 Tolerance of luminous intensity is ±15%

## ■Maximum Forward DC Current




**LED & Application Technologies**