| Tpower 8mm Red LED |
|---|
| OSR5XA8A61R |

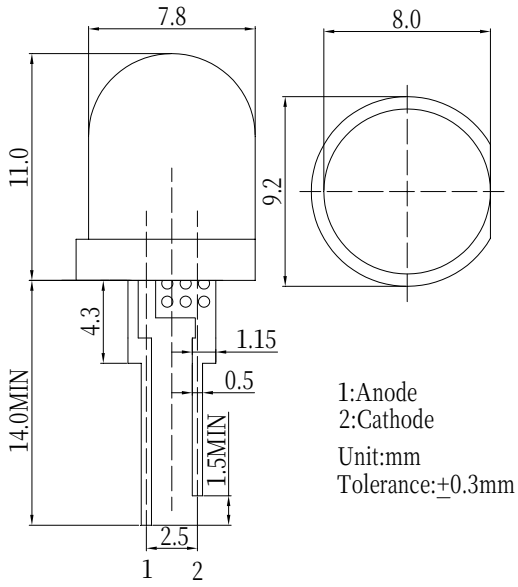
## ▪Features

- Highest luminous flux
- Super energy efficiency
- Low Thermal resistance
- Water Clear Type

## ▪Applications

- Read lights (car, bus, aircraft)
- Bollards / Security / Garden
- Small Area Illuminations
- In door / Out door Commercial lights
- Automotive Ext

## ▪Outline Dimension

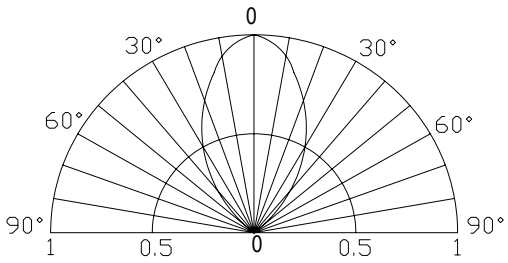



## ▪Absolute Maximum Rating (Ta=25℃)

| Item | Symbol | Value | Unit |
|---|---|---|---|
| DC Forward Current | $I_F$ | 120 | mA |
| Pulse Forward Current* | $I_{FP}$ | 200 | mA |
| Reverse Voltage | $V_R$ | 5 | V |
| Power Dissipation | $P_D$ | 360 | 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 | $V_F$ | $I_F$=100mA | 2.0 | 2.5 | 3.0 | V |
| DC Reverse Current | $I_R$ | $V_R$=5V | - | - | 10 | μA |
| Domi. Wavelength* | $\lambda_D$ | $I_F$=100mA | 619 | 624 | 629 | nm |
| Luminous Intensity* | Iv | $I_F$=100mA | - | 10000 | - | mcd |
| 50% Power Angle | $2\theta_{1/2}$ | $I_F$=100mA | - | 60 | - | deg |

*1 Tolerance of dominant wavelength is ±1nm

*2 Tolerance of luminous intensity is ±15%