OptoSupply
Light It Up

# Premium 0.5 Power 5mm Round Yellow LED

## OSY5XD5141R-150MA

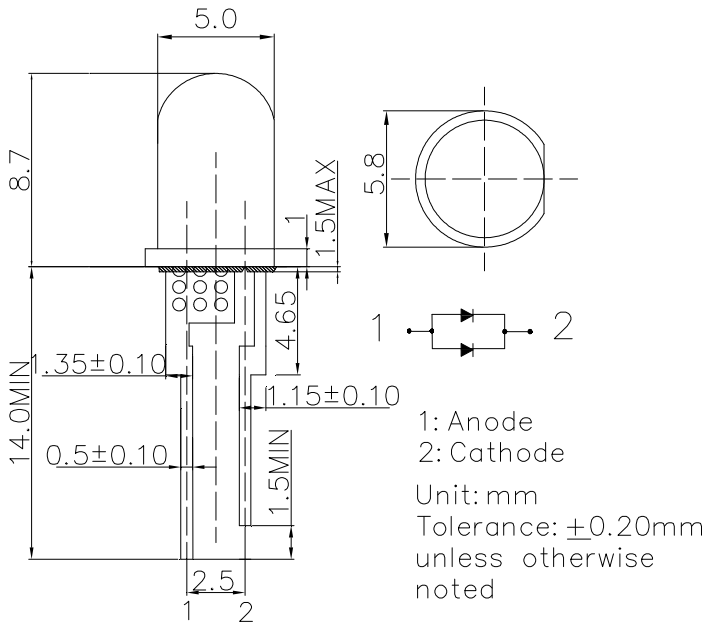
## ▪Features

- Highest Luminous Flux
- Long Lifetime Operation
- Low Thermal Resistance
- Water Clear Type

## ▪Applications

- Read Lights (car, bus, aircraft)
- Bollards / Security / Garden
- Small Area Illuminations
- Indoor / Outdoor Commercial Lights
- Automotive Ext

## ▪Outline Dimension

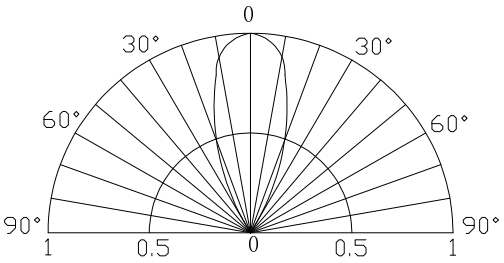



## ▪Absolute Maximum Rating (Ta=25℃)

| Item | Symbol | Value | Unit |
|---|---|---|---|
| DC Forward Current | $I_F$ | 200 | mA |
| Pulse Forward Current# | $I_{FP}$ | 250 | mA |
| Reverse Voltage | $V_R$ | 5 | V |
| Power Dissipation | $P_D$ | 520 | 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*1 | $V_F$ | $I_F$=150mA | - | 2.2 | 2.6 | V |
| DC Reverse Current | $I_R$ | $V_R$=5V | - | - | 10 | μA |
| Luminous Flux*2 | Φv | $I_F$=150mA | 16 | 18 | - | lm |
| Luminous Intensity*3 | Iv | $I_F$=150mA | 18000 | 22000 | - | mcd |
| Domi. Wavelength*4 | $\lambda_D$ | $I_F$=150mA | 585 | 590 | 595 | nm |
| 50% Power Angle | $2\theta_{1/2}$ | $I_F$=150mA | - | 40 | - | deg |

*1 Tolerance of measurements of forward voltage is±0.1V
*2 Tolerance of measurements of luminous flux is ±15%
*3 Tolerance of measurements of luminous intensity is ±15%
*4 Tolerance of measurements of dominant wavelength is ±10%

**LED & Application Technologies**

ISO 9001: 2008

RoHS Compliant EU 2002/95/EC

REACH The new EU chemicals legislation

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES