OptoSupply
Light It Up

# 4.8mm Straw Warm White 9V LED

## OS5MPL56D1A

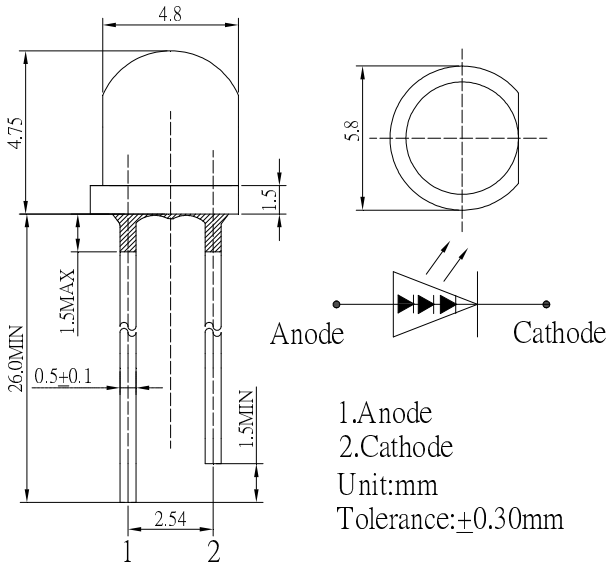
## ■Features

- High luminous Flux LEDs
- 4.8mm Straw Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

## ■Applications

- Backlighting (illuminated advertising etc.)
- Substitution of Micro Incandescent Lamps
- Reading Lamps / Emergency Lighting
- Marker lights (e.g. steps, exit ways, etc.)
- Other Lighting

## ■Outline Dimension



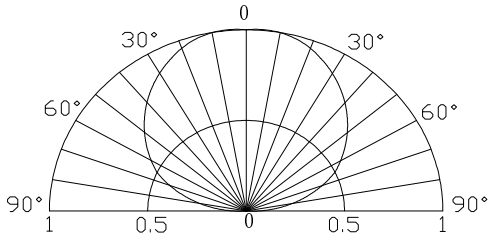

1.Anode
2.Cathode
Unit:mm
Tolerance:±0.30mm

## ■Absolute Maximum Rating (Ta=25℃)

| Item | Symbol | Value | Unit |
|---|---|---|---|
| DC Forward Current | $I_F$ | 25 | mA |
| Pulse Forward Current* | $I_{FP}$ | 120 | mA |
| Reverse Voltage | $V_R$ | 15 | V |
| Power Dissipation | $P_D$ | 255 | 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 | $V_F$ | $I_F$=20mA | 8.4 | 8.9 | 10.2 | V |
| DC Reverse Current | $I_R$ | $V_R$=15V | - | - | 10 | μA |
| Luminous Flux | Φv | $I_F$=20mA | 20 | 22 | - | lm |
| Luminous Intensity | Iv | $I_F$=20mA | 4500 | 5200 | - | mcd |
| Color Temperature | CCT | $I_F$=20mA | 2600 | 3000 | 3500 | K |
| Chromaticity Coordinates* | x | $I_F$=20mA | - | 0.44 | - | |
| | y | $I_F$=20mA | - | 0.41 | - | |
| 50% Power Angle | 2θ1/2 | $I_F$=20mA | - | 130 | - | deg |

*1 Luminous Intensity Measurement allowance is ±15%
*2 Chromaticity Coordinates Measurement allowance is ±10%



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