OptoSupply
Light It Up

# 4.8mm Straw Blue AC LED

## OSBBS256A1A

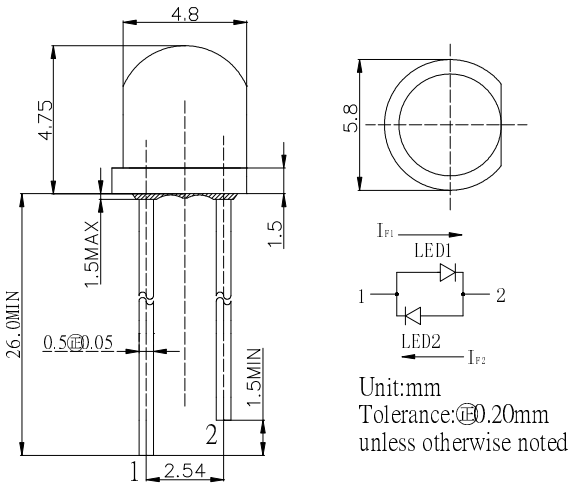
## ▪Features

- High Luminous LEDs
- 4.8mm Straw Standard Directivity
- UV Resistant Epoxy
- Water Clear Type

## ▪Applications

- Toys
- Audio
- Games
- Other Lighting

## ▪Outline Dimension



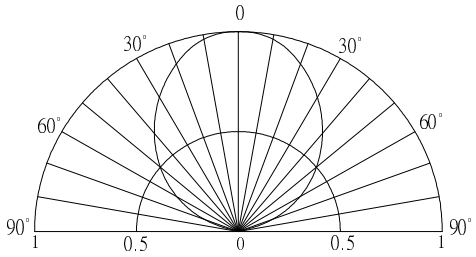

Unit:mm
Tolerance:±0.20mm
unless otherwise noted

## ▪Absolute Maximum Rating (Ta=25℃)

| Item | Symbol | Value | | Unit |
|---|---|---|---|---|
| | | LED1 | LED2 | |
| DC Forward Current | $I_F$ | 30 | 30 | mA |
| Pulse Forward Current* | $I_{FP}$ | 100 | 100 | mA |
| Reverse Voltage | $V_R$ | 5 | 5 | V |
| Power Dissipation | $P_D$ | 102 | 102 | 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 | NO. | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|---|
| DC Forward Voltage | LED1 | $V_{F1}$ | $I_{F1}$=20mA | - | 2.9 | 3.4 | V |
| | LED2 | $V_{F2}$ | $I_{F2}$=20mA | - | 2.9 | 3.4 | V |
| Domi. Wavelength* | LED1 | $\lambda_{D1}$ | $I_{F1}$=20mA | 465 | 470 | 475 | nm |
| | LED2 | $\lambda_{D2}$ | $I_{F2}$=20mA | 465 | 470 | 475 | nm |
| Luminous Intensity* | LED1 | $I_{V1}$ | $I_{F1}$=20mA | 750 | 1120 | - | mcd |
| | LED2 | $I_{V2}$ | $I_{F2}$=20mA | 750 | 1120 | - | mcd |
| 50% Power Angle | LED1 | $2\theta_{1/2}$ | $I_{F1}$=20mA | - | 100 | - | deg |
| | LED2 | $2\theta_{1/2}$ | $I_{F2}$=20mA | - | 100 | - | deg |

*1 Tolerance of measurements of domi. wavelength is ±1nm
*2 Tolerance of measurements of luminous intensity is ±15%
*3 Tolerance of measurements of forward voltage is ±0.1V