OptoSupply

# 8mm Round Violet LED

## OSV5YL8131A

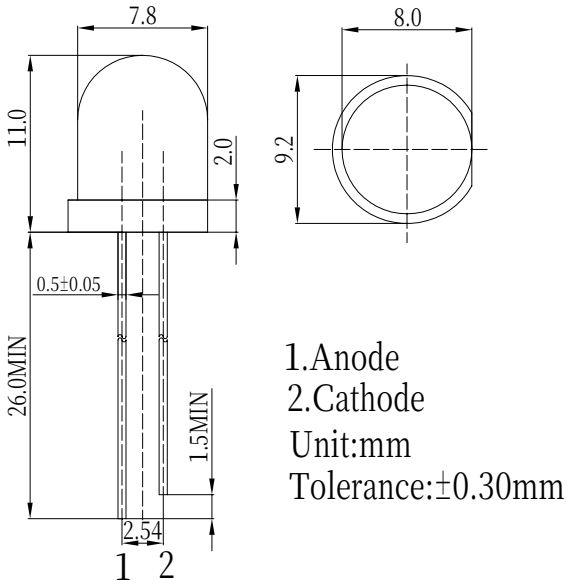
## ▪Features

- High Luminous LEDs
- 8mm Round Standard Directivity
- Long Lifetime Operation
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

## ▪Applications

- Counterfeit Detection
- NDT Crack Detection
- Fluid Leak Detection
- Forensic Science/Infection Control
- Other Lighting

## ▪Outline Dimension

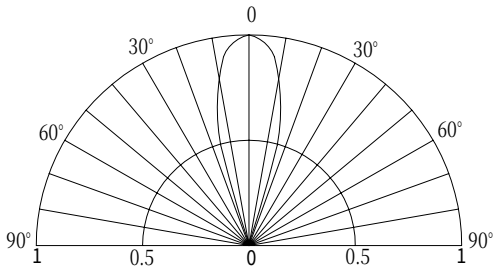



## ▪Absolute Maximum Rating (Ta=25℃)

| Item | Symbol | Value | Unit |
|---|---|---|---|
| DC Forward Current | $I_F$ | 30 | mA |
| Pulse Forward Current* | $I_{FP}$ | 100 | mA |
| Reverse Voltage | $V_R$ | 5 | V |
| Power Dissipation | $P_D$ | 108 | 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 | 2.9 | 3.1 | 3.6 | V |
| DC Reverse Current | $I_R$ | $V_R$=5V | - | - | 10 | μA |
| Peak Wavelength* | $\lambda_p$ | $I_F$=20mA | 400 | 405 | 410 | nm |
| Radiant flux* | Φe | $I_F$=20mA | 2.0 | 5.0 | 6.0 | mW |
| Luminous Intensity* | Iv | $I_F$=20mA | 300 | 400 | - | mcd |
| 50% Power Angle | $2\theta_{1/2}$ | $I_F$=20mA | - | 30 | - | deg |

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