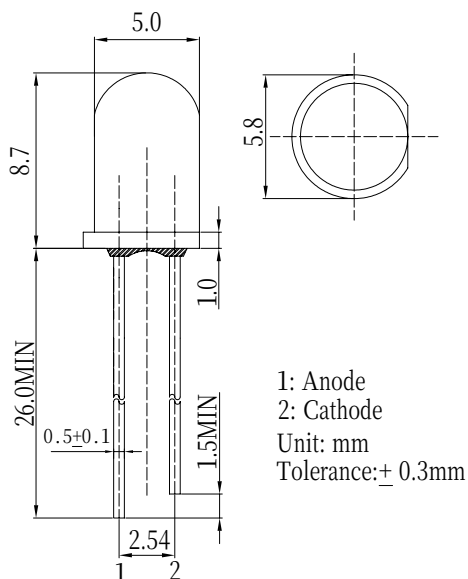


## 5mm Round Pure White LED

### ■Features

- High Luminous LEDs
- 5mm Round Standard Directivity
- Long Lifetime Operation (Up to 100,000 hours)
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

### ■Outline Dimension

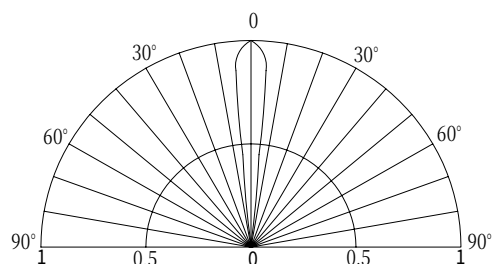


### ■Absolute Maximum Rating (Ta=25°C)

| 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      | $T_{opr}$ | -30 ~ +85  | °C   |
| Storage Temperature        | $T_{stg}$ | -40 ~ +100 | °C   |
| Lead Soldering Temperature | $T_{sol}$ | 260°C/5sec | -    |

\*Pulse width Max 10ms , Duty ratio max 1/10

### ■Directivity



### ■Electrical -Optical Characteristics (Ta=25°C)

| Item                      | Symbol          | Condition         | Min. | Typ.  | Max. | Unit          |
|---------------------------|-----------------|-------------------|------|-------|------|---------------|
| DC Forward Voltage        | $V_F$           | $I_F=20\text{mA}$ | 2.9  | 3.1   | 3.6  | V             |
| DC Reverse Current        | $I_R$           | $V_R=5\text{V}$   | -    | -     | 10   | $\mu\text{A}$ |
| Luminous Intensity*       | $I_v$           | $I_F=20\text{mA}$ | 9000 | 12000 | mcd  |               |
| Chromaticity Coordinates* | x               | $I_F=20\text{mA}$ | -    | 0.27  | -    |               |
|                           | y               | $I_F=20\text{mA}$ | -    | 0.28  | -    |               |
| 50% Power Angle           | $2\theta_{1/2}$ | $I_F=20\text{mA}$ | -    | 15    | -    | deg           |

\*1 Tolerance of chromaticity coordinates is  $\pm 10\%$

\*2 Tolerance of luminous intensity is  $\pm 15\%$

## 5mm Round Warm White LED

### ■Absolute Maximum Rating (Ta=25°C)

| Item                       | Symbol          | Value      | Unit |
|----------------------------|-----------------|------------|------|
| DC Forward Current         | I <sub>F</sub>  | 30         | mA   |
| Pulse Forward Current*     | I <sub>FP</sub> | 100        | mA   |
| Reverse Voltage            | V <sub>R</sub>  | 5          | V    |
| Power Dissipation          | P <sub>D</sub>  | 108        | mW   |
| Operating Temperature      | Topr            | -30 ~ +85  | °C   |
| Storage Temperature        | Tstg            | -40 ~ +100 | °C   |
| Lead Soldering Temperature | Tsol            | 260°C/5sec | -    |

\*Pulse width Max 10ms , Duty ratio max 1/10

### ■Electrical -Optical Characteristics (Ta=25°C)

| Item                      | Symbol            | Condition            | Min.  | Typ.  | Max. | Unit |
|---------------------------|-------------------|----------------------|-------|-------|------|------|
| DC Forward Voltage        | V <sub>F</sub>    | I <sub>F</sub> =20mA | 2.9   | 3.1   | 3.6  | V    |
| DC Reverse Current        | I <sub>R</sub>    | V <sub>R</sub> =5V   | -     | -     | 10   | μA   |
| Luminous Intensity*       | I <sub>v</sub>    | I <sub>F</sub> =20mA | 18000 | 22000 | -    | mcd  |
| Chromaticity Coordinates* | x                 | I <sub>F</sub> =20mA | -     | 0.45  | -    |      |
|                           | y                 | I <sub>F</sub> =20mA | -     | 0.41  | -    |      |
| 50% Power Angle           | 2θ <sub>1/2</sub> | I <sub>F</sub> =20mA | -     | 15    | -    | deg  |

\*1 Tolerance of chromaticity coordinates is ±10%

\*2 Tolerance of luminous intensity is ±15%

### ■Directivity

