

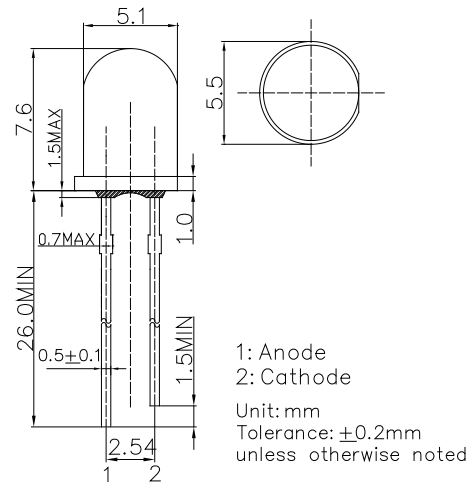
## ■Features

- High Radiant Power LEDs
- 5mm Standard Directivity
- UV Resistant Epoxy
- Long Lifetime Operation
- Water Clear Type

## ■Applications

- IrDA
- Encoder
- Data Communication

## ■Outline Dimension



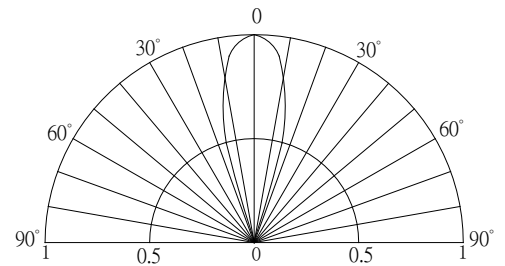
## ■Absolute Maximum Rating

( $T_a=25^\circ\text{C}$ )

| Item                       | Symbol    | Value                           | Unit             |
|----------------------------|-----------|---------------------------------|------------------|
| DC Forward Current         | $I_F$     | 100                             | mA               |
| Pulse Forward Current#     | $I_{FP}$  | 1000                            | mA               |
| Reverse Voltage            | $V_R$     | 5                               | V                |
| Power Dissipation          | $P_D$     | 180                             | mW               |
| Operating Temperature      | $T_{opr}$ | $-30 \sim +85$                  | $^\circ\text{C}$ |
| Storage Temperature        | $T_{stg}$ | $-40 \sim +100$                 | $^\circ\text{C}$ |
| Lead Soldering Temperature | $T_{sol}$ | $260^\circ\text{C}/5\text{sec}$ | -                |

#Pulse width Max.10ms Duty ratio max 1/10

## ■Directivity



## ■Electrical -Optical Characteristics

( $T_a=25^\circ\text{C}$ )

| Item                 | Symbol          | Condition          | Min. | Typ. | Max. | Unit          |
|----------------------|-----------------|--------------------|------|------|------|---------------|
| DC Forward Voltage*1 | $V_F$           | $I_F=100\text{mA}$ | -    | 1.6  | 1.8  | V             |
| DC Reverse Current   | $I_R$           | $V_R=5\text{V}$    | -    | -    | 10   | $\mu\text{A}$ |
| Peak Wavelength*2    | $\lambda_p$     | $I_F=100\text{mA}$ | -    | 940  | -    | nm            |
| Radiant Power*3      | $P_O$           | $I_F=100\text{mA}$ | 20   | 26   | -    | mW            |
| Radiant Intensity*4  | $I_e$           | $I_F=100\text{mA}$ | 30   | 40   | -    | mW/Sr         |
| 50% Power Angle      | $2\theta_{1/2}$ | $I_F=100\text{mA}$ | -    | 30   | -    | deg           |

\*1 Tolerance of measurements of Forward voltage is  $\pm 0.1\text{V}$

\*2 Tolerance of measurements of Peak wavelength is  $\pm 1\text{nm}$

\*3 Tolerance of measurements of Radiant power is  $\pm 15\%$

\*4 Tolerance of measurements of Radiant intensity is  $\pm 15\%$

## LED & Application Technologies

