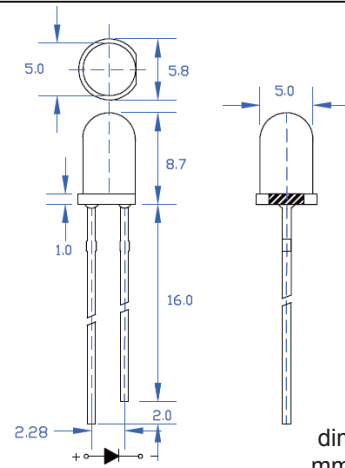


## Light Emitting Diode

### Product Characteristics:

- Ultra Bright Brightness
- 5mm Diameter Circular Shape Package
- General Purpose Lead
- Highly Reliable
- Emitting Color : Red



## MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

| Parameter  | MAX                | Unit |
|--|--------------------|------|
| Power Dissipation                                    | 70                 | mW   |
| Continuous Forward Current                           | 20                 | mA   |
| Reverse Voltage                                      | 5                  | V    |
| Operating Temperature Range                          | -30°C To +85°C     |      |
| Storage Temperature Range                            | -40°C To +100°C    |      |
| Lead Soldering Temperature<br>(4mm(0.157")From Body) | 260°C for 3seconds |      |

## Electrical Specification (TA=25°C unless otherwise specified)

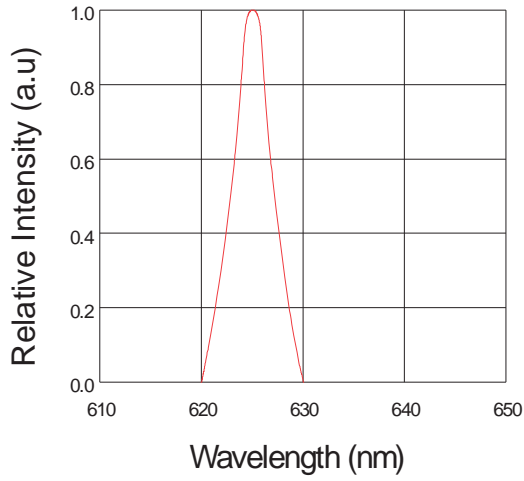
| Parameter          | Symbol            | Min   | Typ   | Max.  | Unit | Test Condition |
|--------------------|-------------------|-------|-------|-------|------|----------------|
| Luminous Intensity | I <sub>v</sub>    | 700   | ----- | 1200  | mcd  | IF=20mA        |
| Viewing Angle      | 2θ <sub>1/2</sub> | ----- | 30    | ----- | Deg  | IF=20mA        |
| Peak Wavelength    | λ <sub>p</sub>    | ----- | 634   | ----- | nm   | IF=20mA        |
| Forward Voltage    | V <sub>F</sub>    | 1.9   | ----- | 2.4   | V    | IF=20mA        |
| Reverse Current    | I <sub>R</sub>    | ----- | ----- | 5     | μA   | VR=5V          |

### Notes:

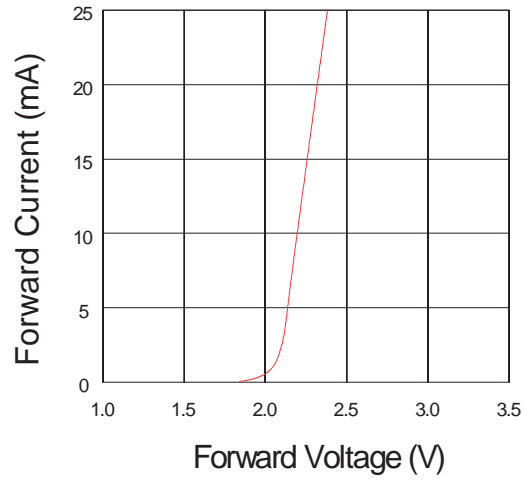
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. 2θ<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity

# RATINGS AND CHARACTERISTIC CURVES

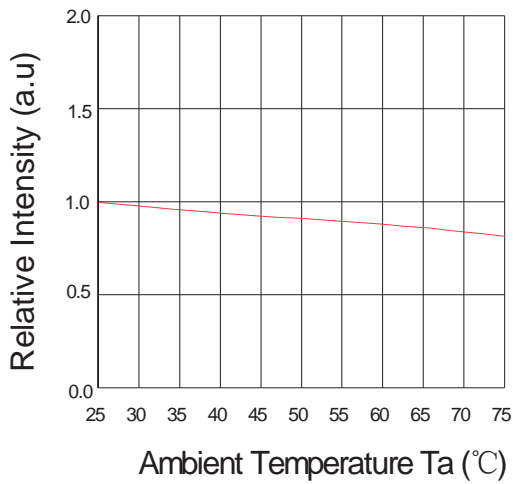
Relative Intensity VS. Wavelength



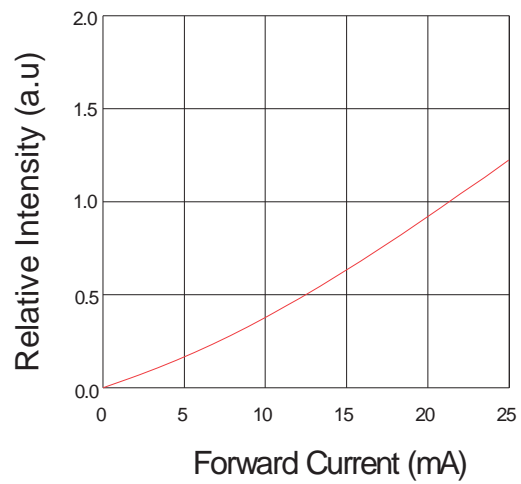
Forward Current VS. Forward Voltage



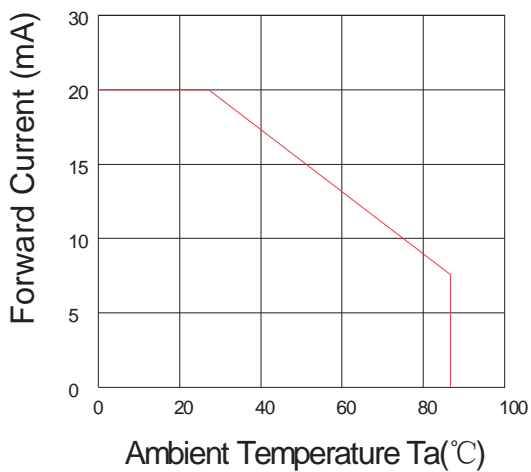
Relative Intensity VS. Ambient Temp



Forward Current VS. Relative Intensity



Forward Current VS. Ambient Temp.



Radiation Characteristics

