

# LED Socket

LAMP

## PRODUCT SPECIFICATIONS

### RED LED SOCKET LAMP

**LED-4RED-12SA-1**  
12v AC LED Socket Lamp 0.17w  
Red

#### DESCRIPTION

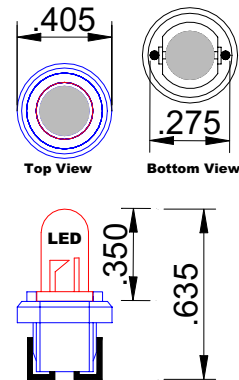
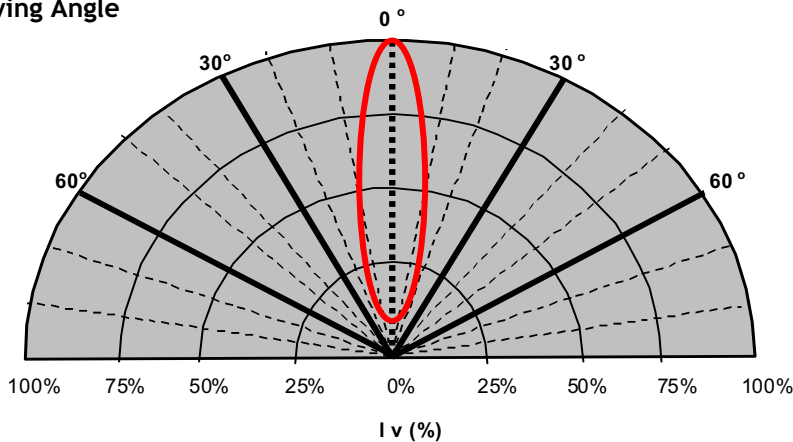
SOURCE MATERIAL ----- AlGaInP  
EMITTING COLOR ----- RED  
LENS TYPE ----- WATER CLEAR

#### ABSOLUTE MAXIMUM RATING (Ta=25°C)

PEAK FORWARD CURRENT ----- 50mA  
AVERAGE FORWARD CURRENT ----- 15mA  
DERATING FACTOR ----- .40mA/°C  
REVERSE VOLTAGE ----- 12.0V  
OPERATING TEMPERATURE ----- -40°C TO 85°C  
STORAGE TEMPERATURE ----- -40°C TO 100°C  
SPEED OF RESPONSE ----- 40ns



#### Viewing Angle



#### Characteristics (Ta=25°C)

| PARAMETER                | CONDITION | SYMBOL | MIN  | TYP  | MAX  | UNIT |
|--------------------------|-----------|--------|------|------|------|------|
| POWER DISSIPATION        |           | Pd     |      | 120  |      | mW   |
| PEAK EMISSION WAVELENGTH | If=20mA   | λp     |      | 630  |      | nm   |
| FORWARD VOLTAGE          | If=20mA   | Vf     | 1.8  | 1.94 | 2.4  | V    |
| REVERSE CURRENT          | Vr=12V    | Ir     |      |      | 50   | mA   |
| LUMINOUS INTENSITY       | If=20mA   | Iv     | 1700 | 2000 | 2200 | mcd  |
| VIEWING ANGLE            | If=20mA   | 2θ1/2  |      | 30   |      | deg  |

#### Note:

- The dominant wavelength, λD, is derived from CIE 1931 Chromaticity Diagram and represents the emitting color of the device.
- The luminous intensity of the lamp is measured on the mechanical axis of the lamp. The optical axis is closely aligned with the package mechanical axis.
- Less than 10% of the distribution have Iv around minimum value.
- More than 70% of the distribution is within the typical value (+/- 15%)
- Specifications are subject to change without notice.



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