

L53SRD5V SUPER BRIGHT RED

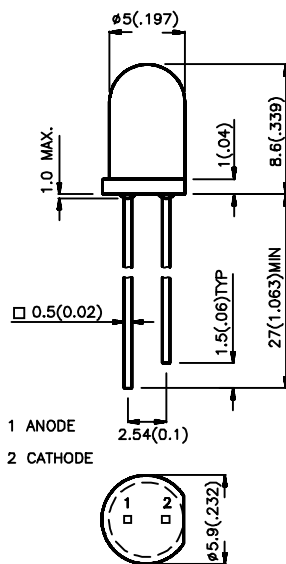
Features

- HIGH INTENSITY.
- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 5V INTERNAL RESISTOR.

Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ " unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | I _v (mcd) V=5V | | Viewing Angle |
|----------|---------------------------|--------------|------------------------------|------|---------------|
| | | | Min. | Typ. | 2θ1/2 |
| L53SRD5V | SUPER BRIGHT RED (GaAlAs) | RED DIFFUSED | 100 | 180 | 60° |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

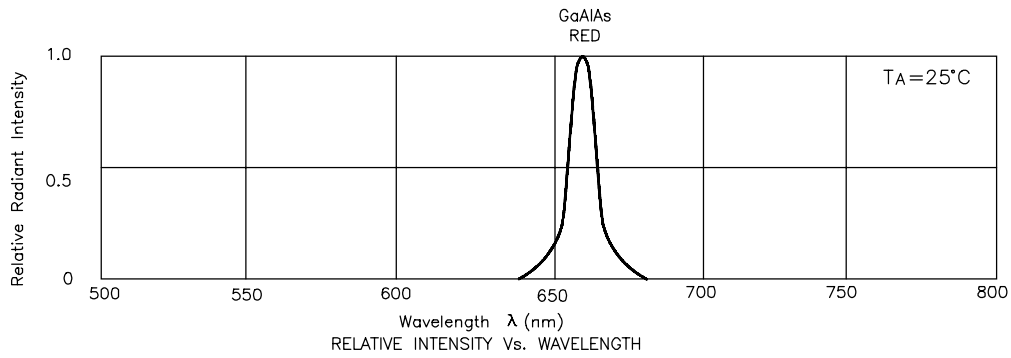
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------|-------------------------|------------------|------|------|-------|-----------------|
| λ _{peak} | Peak Wavelength | Super Bright Red | 660 | | nm | VF=5V |
| λ _D | Dominate Wavelength | Super Bright Red | 640 | | nm | VF=5V |
| Δλ _{1/2} | Spectral Line Halfwidth | Super Bright Red | 20 | | nm | VF=5V |
| I _F | Forward Current | Super Bright Red | 13 | | mA | VF=5V |
| I _R | Reverse Current | All | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at T_A=25°C

| Parameter | Super Bright Red | Units |
|----------------------------|---------------------|-------|
| Power dissipation | 85 | mW |
| DC Forward Voltage | 6.5 | V |
| Reverse Voltage | 5 | V |
| Operation Temperature | -40°C To +70°C | |
| Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature[1] | 260°C For 5 Seconds | |

Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.



Super Bright Red L53SRD5V

