

Features

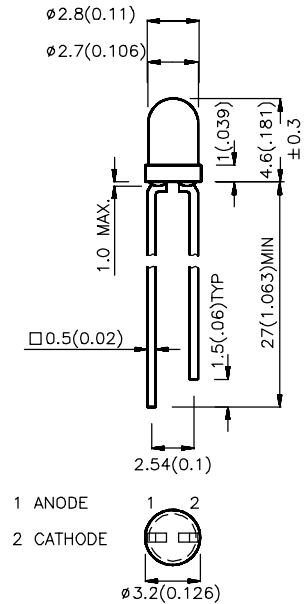
- 5 VOLT SERIES IN T-1 PACKAGES.
- INTEGRAL CURRENT LIMITING RESISTOR.
- NO EXTERNAL CURRENT LIMITER REQUIRED WITH 5 VOLT SUPPLY.
- COST EFFECTIVE - SAVE SPACE AND RESISTOR COST.
- WIDE VIEWING ANGLE.
- AVAILABLE IN ALL COLORS.
- 5V INTERNAL RESISTOR.

L934SRD5V SUPER BRIGHT RED

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 | Iv (mcd) V=5V | | Viewing Angle |
|-----------|---------------------------|--------------|------------------|------|---------------|
| | | | Min. | Typ. | |
| L934SRD5V | SUPER BRIGHT RED (GaAlAs) | RED DIFFUSED | 70 | 100 | 60° |

Note:

1. $\theta_{1/2}$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

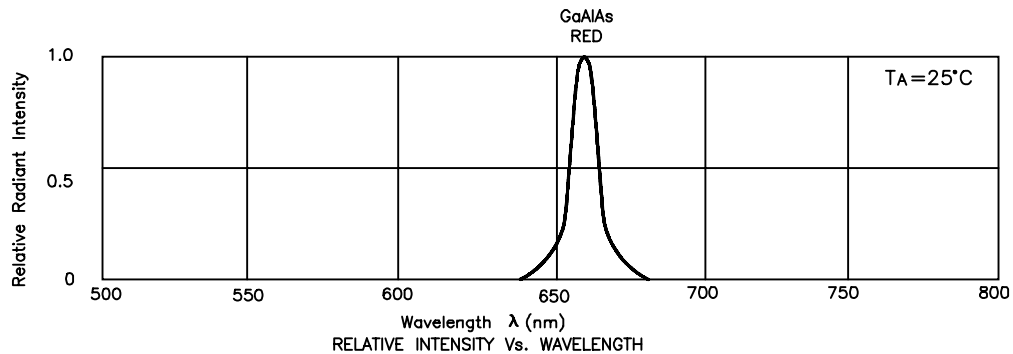
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------------|-------------------------|------------------|------|------|---------------|-----------------|
| λ_{peak} | Peak Wavelength | Super Bright Red | 660 | | nm | VF=5V |
| λ_D | Dominate Wavelength | Super Bright Red | 640 | | nm | VF=5V |
| $\Delta\lambda_{1/2}$ | 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 | μA | VR = 5V |

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

| 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 L934SRD5V

