

L53SRD5V SUPER BRIGHT RED

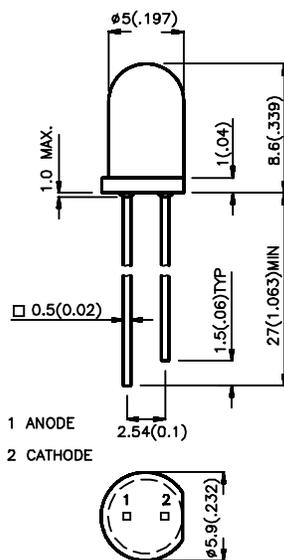
Features

- 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

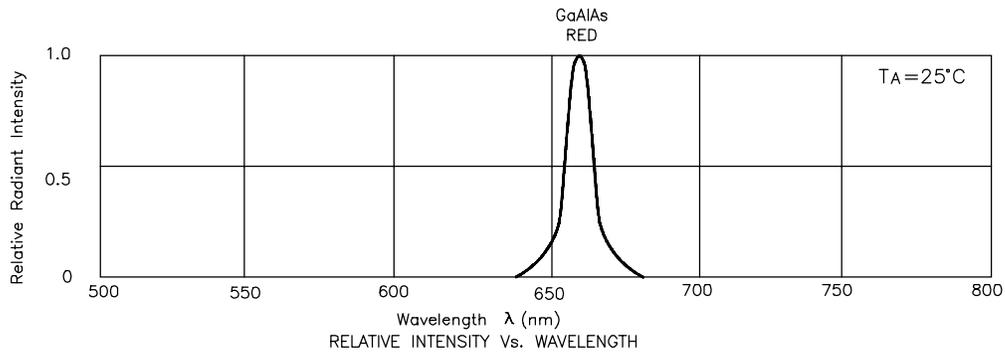
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Super Bright Red	660		nm	VF=5V
λ _D	Dominate Wavelength	Super Bright Red	640		nm	VF=5V
Δλ _{1/2}	Spectral Line Halfwidth	Super Bright Red	20		nm	VF=5V
I _F	Forward Current	Super Bright Red	13		mA	VF=5V
I _R	Reverse Current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

