

L-53SRSGW      SUPER BRIGHT RED  
 SUPER BRIGHT GREEN

### Features

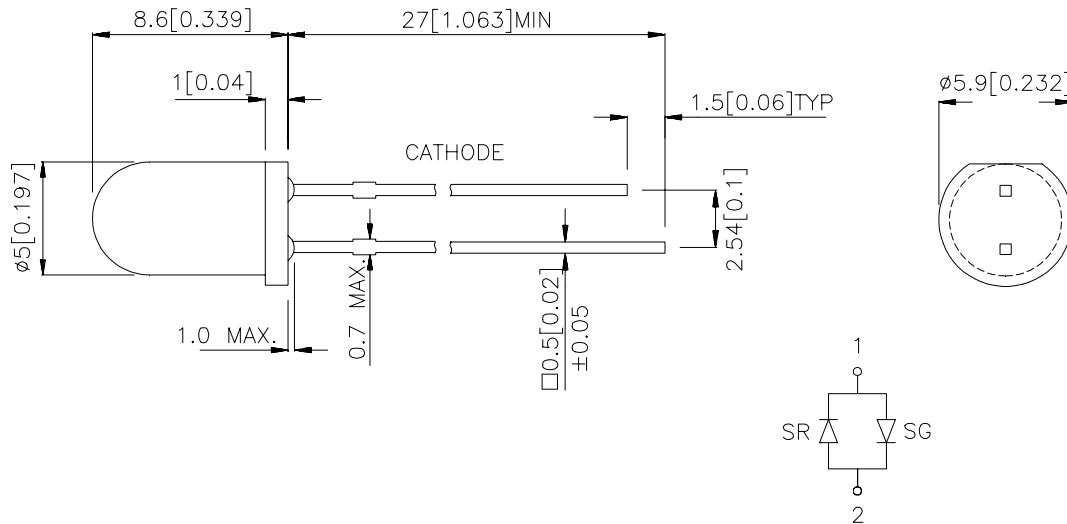
- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.

### Description

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

The Super Bright Green source color devices are made with Gallium Phosphide Green 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 subject to change without notice.

## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
L-53SRSGW	SUPER BRIGHT RED(GaAlAs)	WHITE DIFFUSED	110	200	50°
	SUPER BRIGHT GREEN(GaP)		18	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<sub>A</sub>=25°C

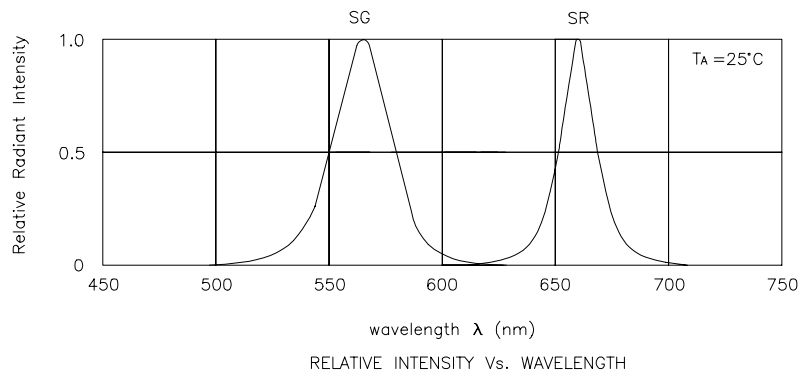
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Super Bright Red Super Bright Green	660 565		nm	I <sub>F</sub> =20mA
λ <sub>D</sub>	Dominate Wavelength	Super Bright Red Super Bright Green	640 568		nm	I <sub>F</sub> =20mA
Δλ <sub>1/2</sub>	Spectral Line Half-width	Super Bright Red Super Bright Green	20 30		nm	I <sub>F</sub> =20mA
C	Capacitance	Super Bright Red Super Bright Green	45 15		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Super Bright Red Super Bright Green	1.85 2.2	2.5 2.5	V	I <sub>F</sub> =20mA

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

Parameter	Super Bright Red	Super Bright Green	Units
Power dissipation	100	105	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	155	140	mA
Operating/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature[2]	260°C For 5 Seconds		

Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.



## Super Bright Red / Super Bright Green L-53SRSGW

