

P/N: L-53SRD-12V

SUPER BRIGHT RED

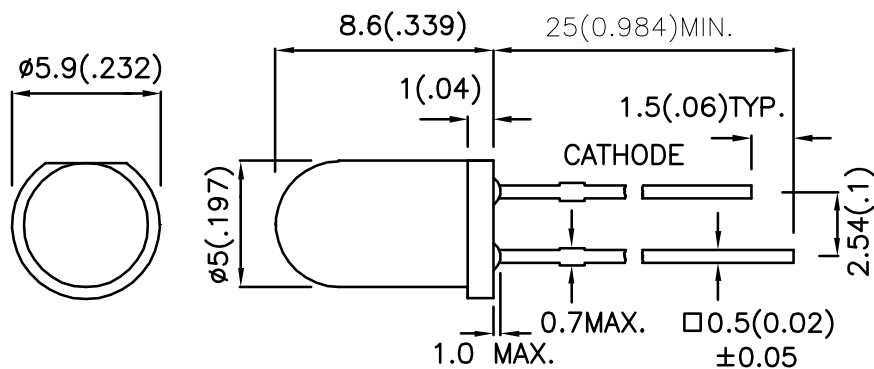
Features

- 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.
- 12V INTERNAL RESISTOR.
- RoHS COMPLIANT.

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 leads emerge from the package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] V=12V		Viewing Angle [1]
			Min.	Typ.	2 θ 1/2
L-53SRD-12V	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	110	180	60°

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous Intensity / Luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Super Bright Red	660		nm	V _F =12V
λ _D [1]	Dominant Wavelength	Super Bright Red	640		nm	V _F =12V
Δλ _{1/2}	Spectral Line Half-width	Super Bright Red	20		nm	V _F =12V
I _F	Forward Current	Super Bright Red	8.5	11.5	mA	V _F =12V
I _R	Reverse Current	Super Bright Red		10	μA	V _R = 5V

Note:

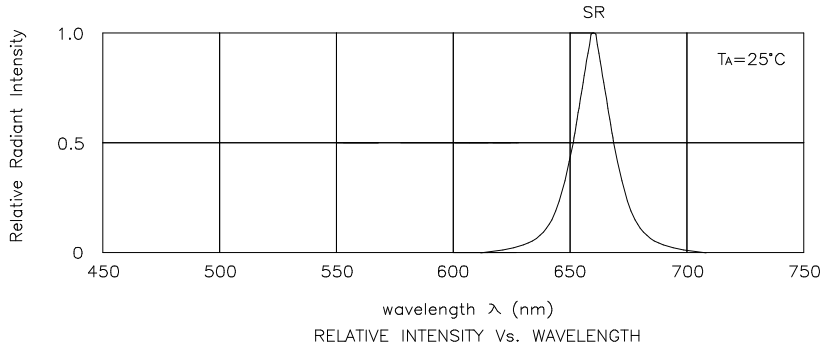
1. Wavelength: +/-1nm.

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red	Units
Power dissipation	120	mW
Forward Voltage	14	V
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[1]	260°C For 3 Seconds	
Lead Solder Temperature[2]	260°C For 5 Seconds	

Notes:

1. 2mm below package base.
2. 5mm below package base.



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