

### 10mm ROUND LED LAMP

L-819SRSGW-CC

SUEPR BRIGHT RED

SUPER BRIGHT GREEN

### **Features**

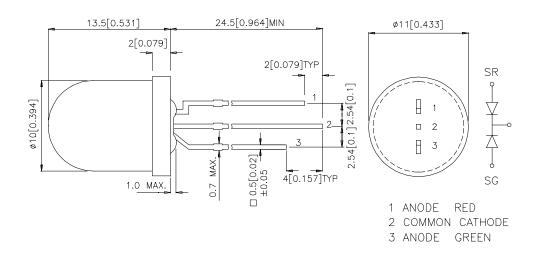
- •UNIFORM LIGHT OUTPUT.
- •LOW POWER CONSUMPTION.
- •3 LEADS WITH ONE COMMON CATHODE LEAD.
- •I.C. COMPATIBLE.
- •LONG LIFE SOLID STATE RELIABILITY.

### 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.
- $3. \, \mbox{Lead}$  spacing is measured where the lead emerge package.
- 4. Specifications are subject to change without notice.

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### **Selection Guide**

Part No.	Dice	Lens Type	<b>lv (mcd)</b> @ 20 mA		<b>Viewing</b> Angle
			Min.	Тур.	201/2
L-819SRSGW-CC	SUPER BRIGHT RED (GaAlAs)	WHITE DIFFLICED	110	200	50°
	SUPER BRIGHT GREEN (GaP)	WHITE DIFFUSED	36	50	

#### Note:

# Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red Super Bright Green	660 565		nm	IF=20mA
λD	Dominate Wavelength	Super Bright Red Super Bright Green	640 568		nm	Ir=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red Super Bright Green	20 30		nm	IF=20mA
С	Capacitance	Super Bright Red Super Bright Green	45 15		pF	V <sub>F</sub> =0V;f=1MHz
VF	Forward Voltage	Super Bright Red Super Bright Green	1.85 2.2	2.5 2.5	V	Ir=20mA
lr	Reverse Current	All		10	uA	V <sub>R</sub> = 5V

# 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		
Reverse Voltage	5 V				
Operating/Storage Temperature	-40°C To +85°C				
Lead Solder Temperature[2]	260°C For 5 Seconds				

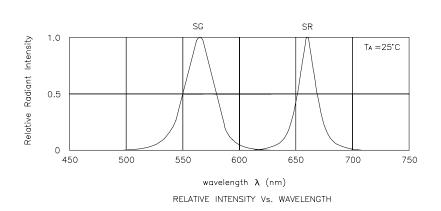
### Notes:

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

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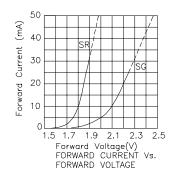
<sup>1.</sup>  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

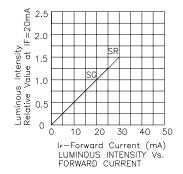


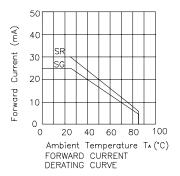


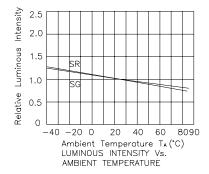
# Super Bright Red / Super Bright Green

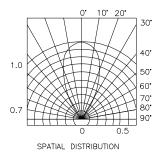
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