# Kingbright

### 10mm ROUND LED LAMP

L-819SRSGC-CC

SUPER BRIGHT RED SUPER BRIGHT GREEN

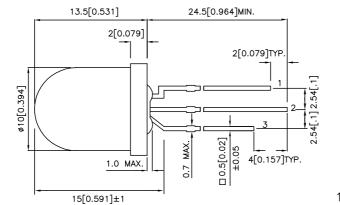
#### Features

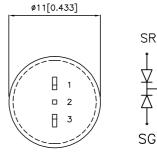
- •UNIFORM LIGHT OUTPUT.
- •LOW POWER CONSUMPTION.
- 3 LEADS WITH ONE COMMON CATHODE LEAD.
- •I.C. COMPATIBLE.
- LONG LIFE SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

#### 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





2

1 ANODE RED

- 2 COMMON CATHODE
- 3 ANODE GREEN

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.

### SPEC NO: DSAC3324 APPROVED: J. Lu

REV NO: V.3 CHECKED: Allen Liu DATE: MAR/16/2005 DRAWN: Y.CHENG

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Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle			
			Min.	Тур.	2 0 1/2			
L-819SRSGC-CC	SUPER BRIGHT RED (GaAlAs)	WATER CLEAR	280	600	40°			
	SUPER BRIGHT GREEN (GaP)	WATER CLEAR	70	150				

Note:

1.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

#### Electrical / Optical Characteristics at TA=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	Dominant Wavelength	Super Bright Red Super Bright Green	640 568		nm	IF=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	VF=0V;f=1MHz
VF	Forward Voltage	Super Bright Red Super Bright Green	1.85 2.2	2.5 2.5	V	IF=20mA
lr	Reverse Current	All		10	uA	VR = 5V

### Absolute Maximum Ratings at TA=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	Į	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

Notes:

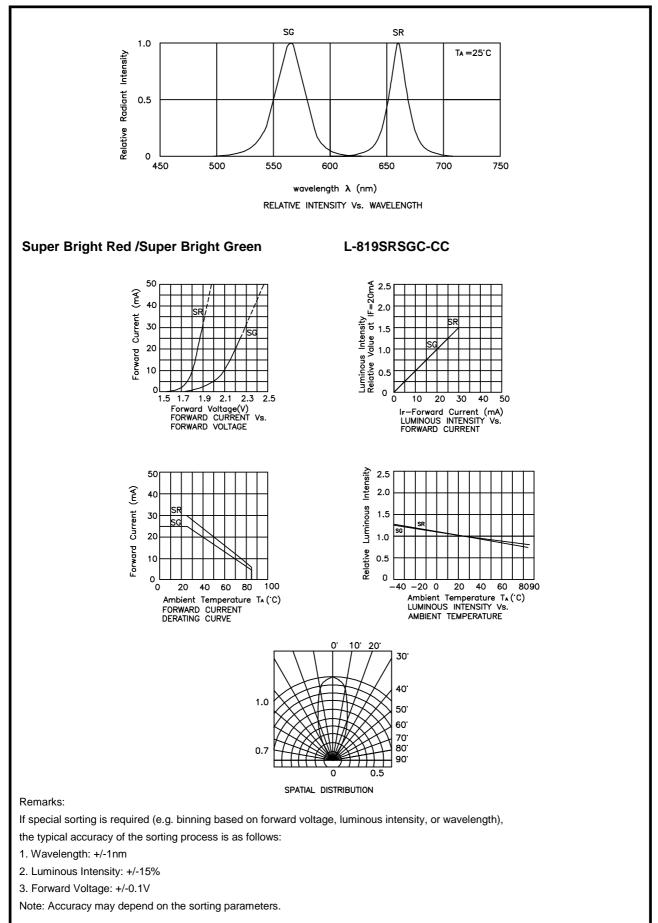
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

3. 5mm below package base.

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