

P/N: WP519SRSGW/CC

SUPER BRIGHT RED

SUPER BRIGHT GREEN

### Features

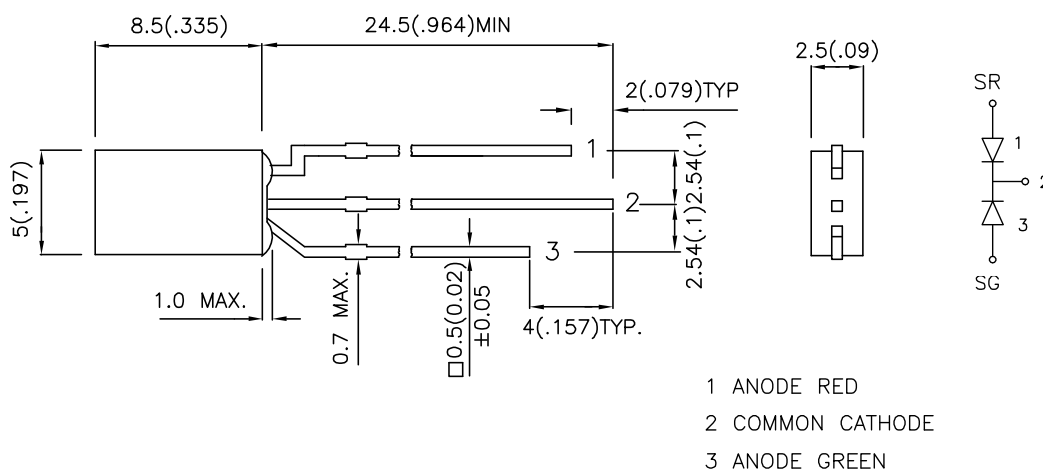
- UNIFORM LIGHT OUTPUT.
- LOW POWER CONSUMPTION.
- 3 LEADS WITH ONE COMMON LEAD.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

### 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



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

## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
WP519SRSGW/CC	SUPER BRIGHT RED (GaAlAs)	WHITE DIFFUSED	18	50	110°
	SUPER BRIGHT GREEN (GaP)		4	10	

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 TA=25°C

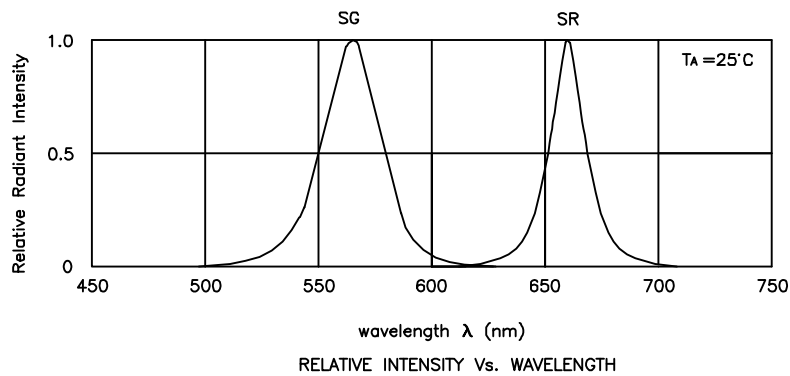
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red Super Bright Green	660 565		nm	IF=20mA
λD	Dominant Wavelength	Super Bright Red Super Bright Green	640 568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red Super Bright Green	20 30		nm	IF=20mA
C	Capacitance	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
IR	Reverse Current	Super Bright Red Super Bright Green		10 10	uA	VR = 5V

## Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red	Super Bright Green	Units
Power dissipation	75	62.5	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 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

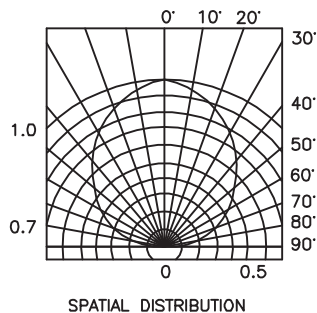
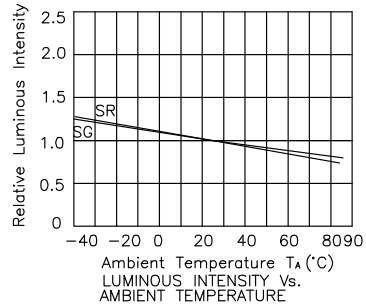
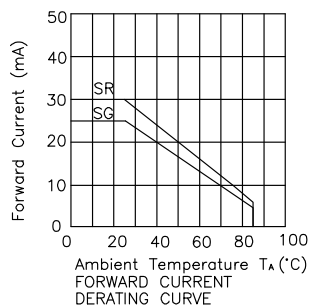
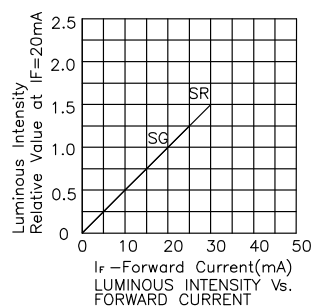
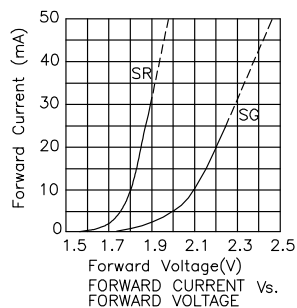
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



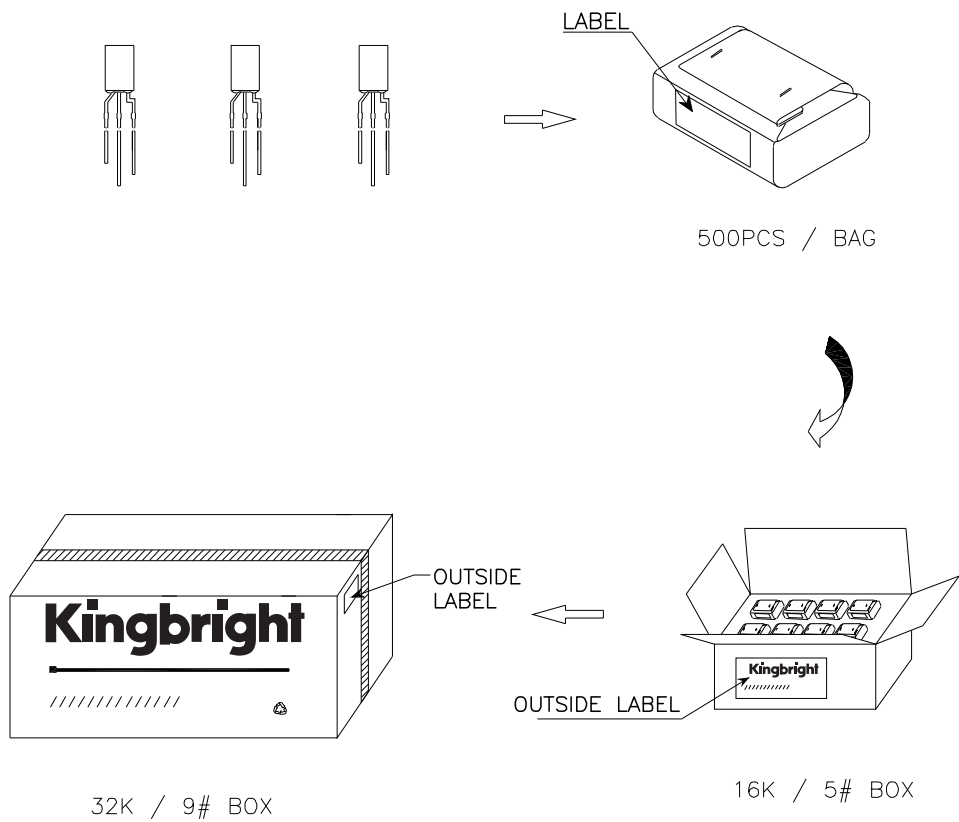
## Super Bright Red /Super Bright Green

## WP519SRSGW/CC



PACKING & LABEL SPECIFICATIONS

WP519SRSGW/CC



<b>Kingbright</b>	
Q.C.	
TYPE NO : WP519xxx	QC xx xx xxxx PASSED
QUANTITY : 500 pcs	
S/N : xxx	CODE: xx
LOT NO : 	
xx-xxxxx	
MADE IN CHINA	RoHS Compliant

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity/ Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

# Mouser Electronics

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