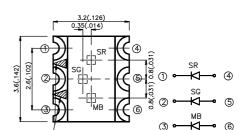
# R Kingbright

# 3.2x3.6mm FULLCOLOR SMD CHIP LED LAMPS

**KPF-3236SRSGMBC-RV SERIES** 

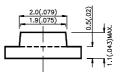
### Features

- I LOW POWER CONSUMPTION.
- I 3.2mmx3.6mm SMT LED. 1.1mm THICKNESS.
- I ONE BLUE, ONE GREEN AND ONE RED CHIPS IN ONE PACKAGE.
- I CAN PRODUCE ANY COLOR IN VISIBLE SPECTRUM, INCLUDING WHITE LIGHT.



Package Dimensions





#### Description

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode. The Super Bright Red source color devices are made with

Gallium Aluminum Arsenide Red Light Emitting Diodes. The Blue source color devices are made with GaN on SiC Light Emitting Diode.

Static electricity and surge damage the LEDS. It is recommended to use a wrist band or anti-electrostatic or anti-electrostatic glove when handing the LEDs.

All devices, equipment and machinery must be electrically grounded.

#### Notes

- Notes: 1. All dimensions are in millimeters (inches). 2. Tolerance is ±0.1(0.004") unless otherwise noted. 3. Lead spacing is measured where the lead emerge package. 4. Specifications are subjected to change without notice.

#### Selection Guide

Note

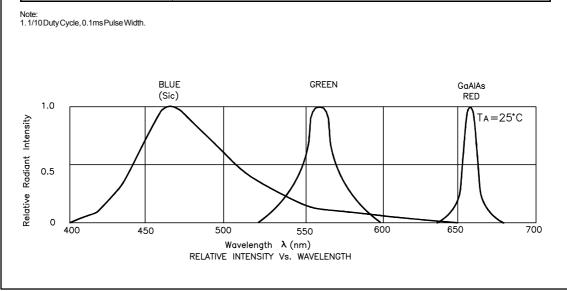
Part No.	Dice	Lens Type	lv (mcd) @ 20 mA		Viewing Angle
			Min.	Min.	2q1/2
KPF-3236SRSGMBC -RV	SUPER BRIGHT RED (GaAlAs)	WATER CLEAR	40	70	120°
	SUPER BRIGHT GREEN (GaP)		3.2	12.5	
	BLUE (GaN)		2	8	

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

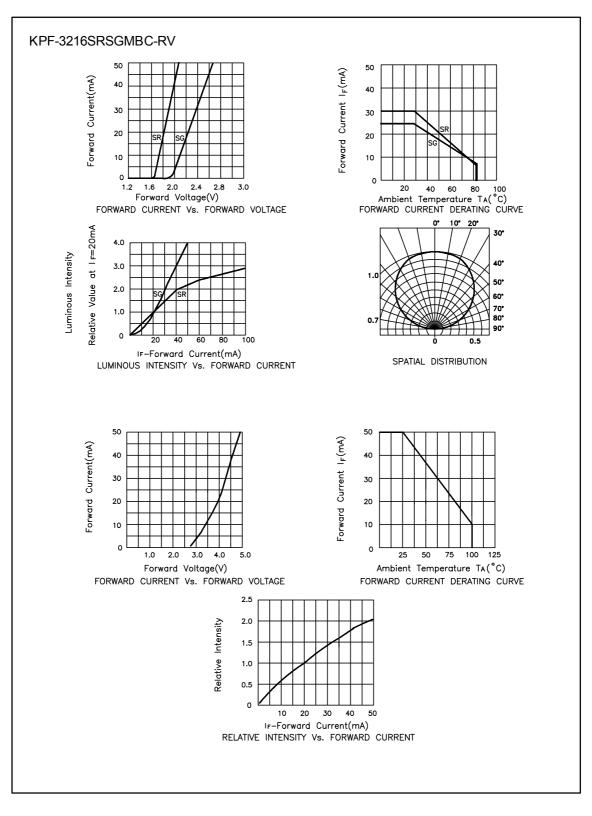
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red Super Bright Green Blue	660 565 470		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Super Bright Red Super Bright Green Blue	20 30 65		nm	IF=20mA
С	Capacitance	Super Bright Red Super Bright Green Blue	95 45 100		pF	VF=0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Super Bright Red Super Bright Green Blue	1.85 2.2 4.5	2.5 2.5 5.5	v	IF=20mA
I <sub>R</sub>	Reverse Current	All	10		uA	VR = 5V

## Absolute Maximum Ratings at T $_{\text{A}}\text{=}25^{\circ}\text{C}$

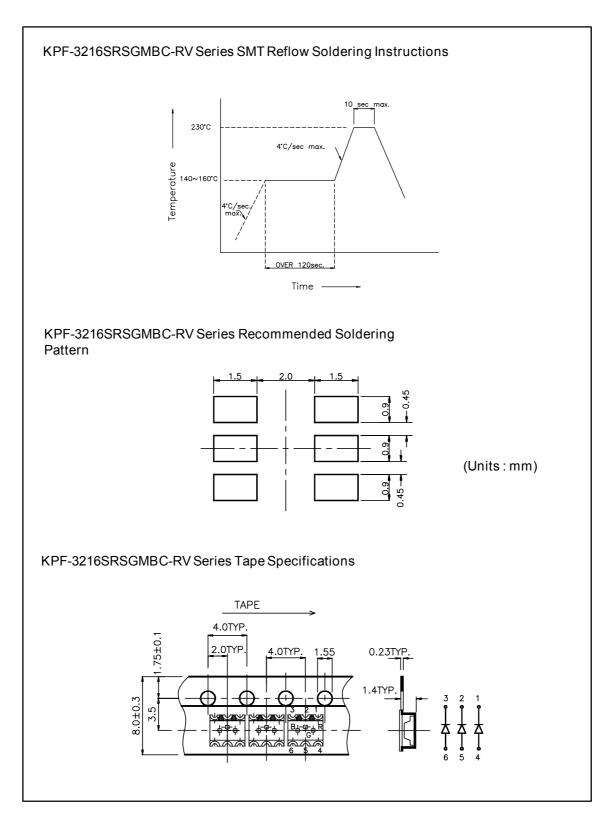
Parameter	Super Bright Red	Super Bright Green	Blue	Units	
Power dissipation	100	105	105	mW	
DC Forward Current	30	25	30	mA	
Peak Forward Current [1]	150	150	200	mA	
Reverse Voltage	5	5	5	V	
Operating/Storage Temperature	-40 ° C To +85 ° C				



1-KPF-3236-RV-2



1-KPF-3236-RV-3



1-KPF-3236-RV-4