Kingbright

3.2x3.6mm FULLCOLOR SMD CHIP LED LAMPS

KPF-3236SRSGMBC-RV SERIES

Features

- I LOWPOWER CONSUMPTION.
- 3.2mmx3.6mm SMTLED. 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.

Description

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

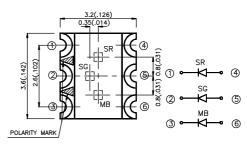
The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diodes.

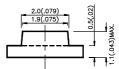
The Blue source color devices are made with GaN on SiC Light Emitting Diode.

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.

Package Dimensions





- 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

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

Note: $1.\,01/2\,is\,the\,angle\,from\,optical\,centerline\,where\,the\,luminous\,intensity\,is\,1/2\,the\,optical\,centerline\,value$

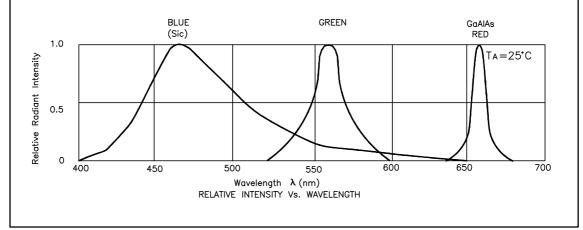
Electrical / Optical Characteristics at T A=25°C

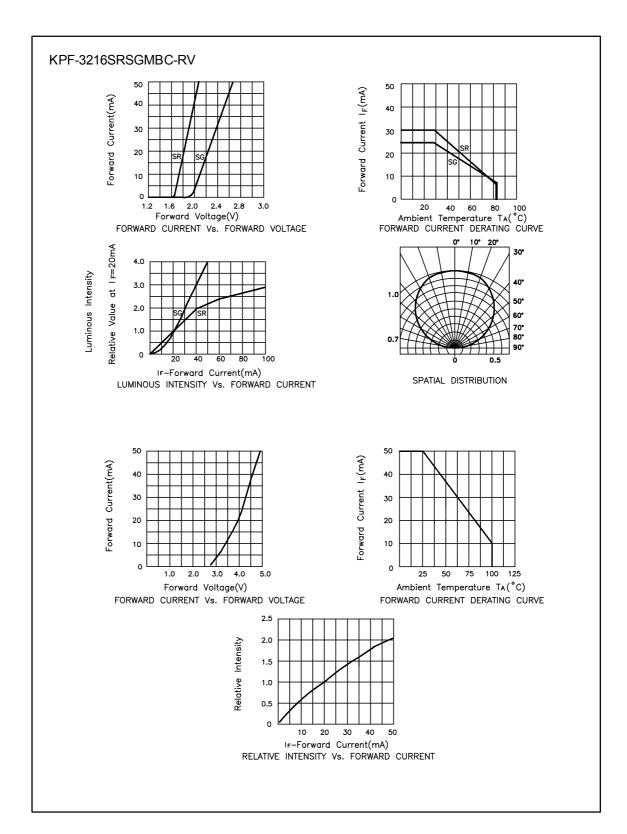
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Super Bright Red Super Bright Green Blue	660 565 470		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	Super Bright Red Super Bright Green Blue	20 30 65		nm	IF=20mA	
С	Capacitance	Super Bright Red Super Bright Green Blue	95 45 100		pF	VF=0V;f=1MHz	
V _F	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 _R	Reverse Current	All	10		uA	VR = 5V	

Absolute Maximum Ratings at T_A=25°C

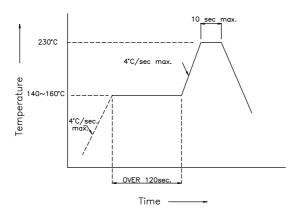
Parameter	Super Bright Red	Super Bright Green	Blue	Units		
Power dissipation	100	105	105	mW		
DC Forward Current	30	25	30	mA		
Peak Forward Current [1]	150	150	200	mA		
Reverse Voltage	5	5	5	V		
Operating/Storage Temperature	-40 ° C To +85 ° C					

Note: 1.1/10 Duty Cycle, 0.1ms Pulse Width.

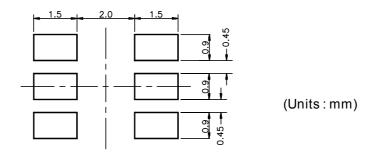




KPF-3216SRSGMBC-RV Series SMT Reflow Soldering Instructions



KPF-3216SRSGMBC-RV Series Recommended Soldering Pattern



KPF-3216SRSGMBC-RV Series Tape Specifications

