

KPF-3236SRSGMBC-PRV SUPER BRIGHT RED
 SUPER BRIGHT GREEN
 BLUE

Features

- LOW POWER CONSUMPTION.
- 3.2mmx3.6mm SMT LED, 1.1mm THICKNESS.
- ONE BLUE, ONE GREEN AND ONE RED CHIPS IN ONE PACKAGE.
- CAN PRODUCE ANY COLOR IN VISIBLE SPECTRUM, INCLUDING WHITE LIGHT.
- PACKAGE : 1000PCS / REEL.

Description

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

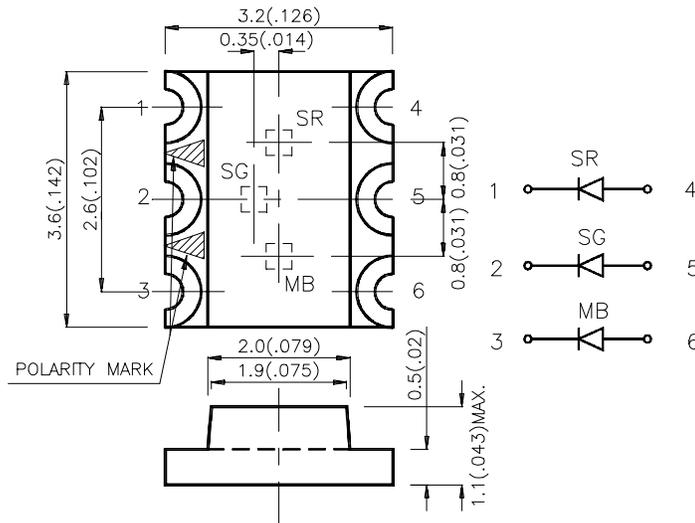
The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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 glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.0079)$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
KPF-3236SRSGMBC -PRV	SUPER BRIGHT RED (GaAlAs)	WATER CLEAR	40	70	120°
	SUPER BRIGHT GREEN (GaP)		3	12	
	BLUE (GaN)		2	8	

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 T_A=25°C

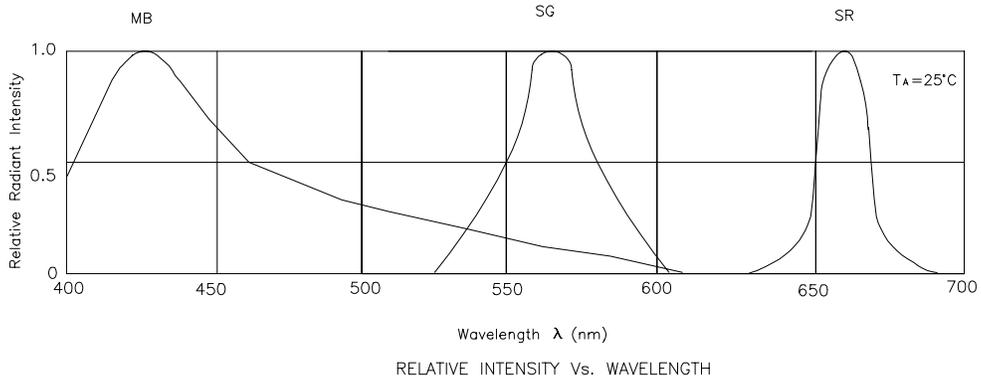
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Super Bright Red Super Bright Green Blue	660 565 430		nm	IF=20mA
λ _D	Dominate Wavelength	Super Bright Red Super Bright Green Blue	640 568 455		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	Super Bright Red Super Bright Green Blue	20 30 60		nm	IF=20mA
C	Capacitance	Super Bright Red Super Bright Green Blue	45 15 65		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Super Bright Red Super Bright Green Blue	1.85 2.2 4.0	2.5 2.5 4.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

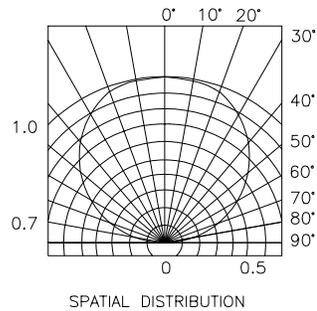
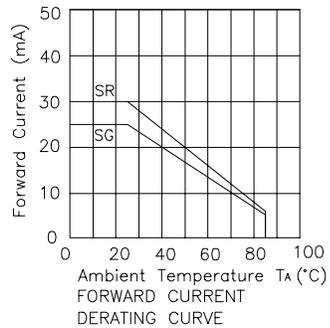
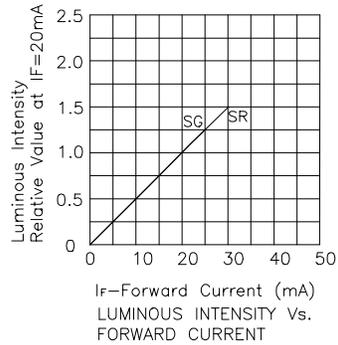
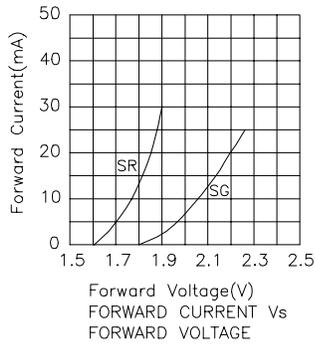
Parameter	Super Bright Red	Super Bright Green	Blue	Units
Power dissipation	100	105	105	mW
DC Forward Current	30	25	30	mA
Peak Forward Current [1]	155	140	150	mA
Reverse Voltage	5	5	5	V
Operating Temperature	-40°C To +85°C		-40°C To +80°C	
Storage Temperature	-40°C To +85°C			

Note:

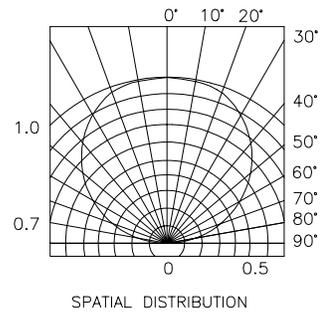
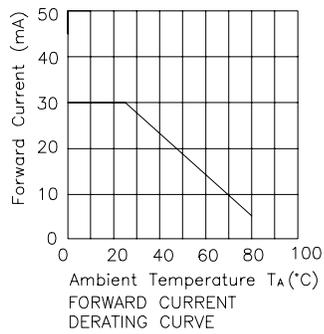
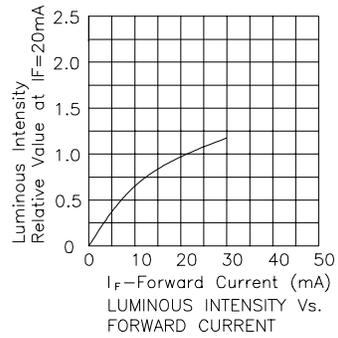
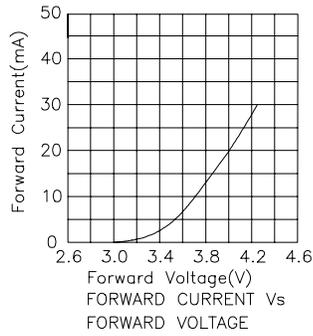
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPF-3236SRSGMBC-PRV
Super Bright Red / Super Bright Green

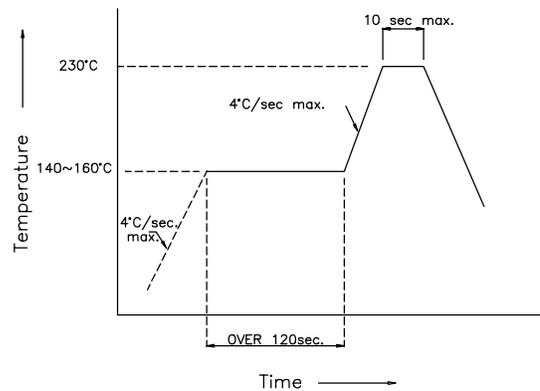


Blue

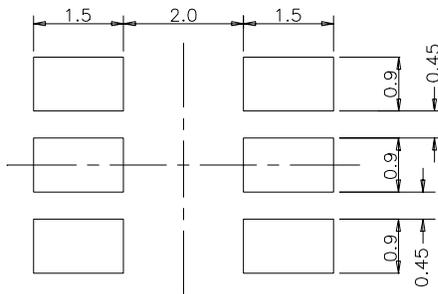


KPF-3236SRSGMBC-PRV SMT Reflow Soldering Instruction

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)

