

Part Number: KPB-3025SRCGKC-PRV

Super Bright Red
Green

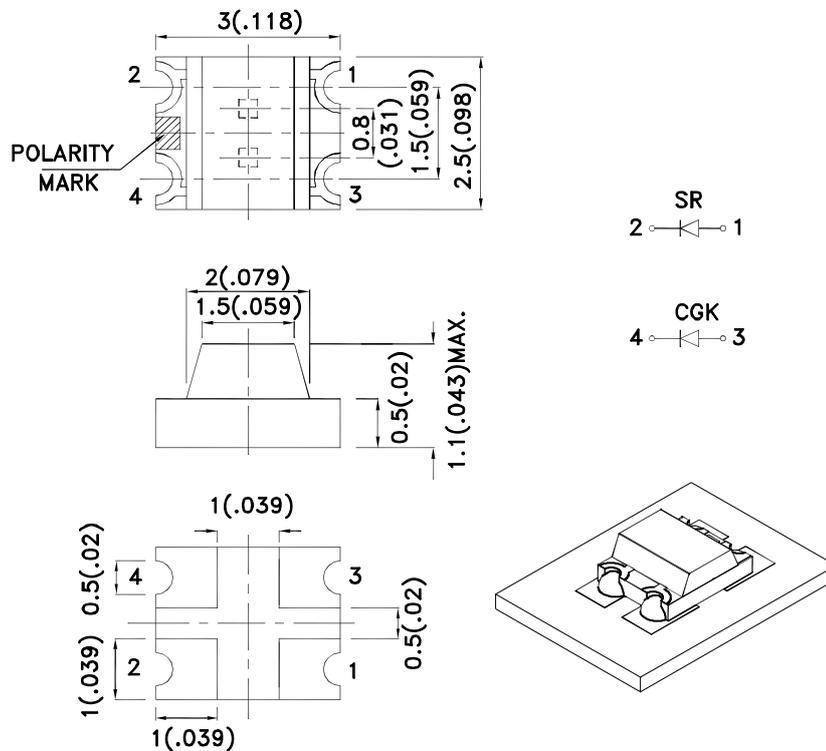
Features

- 3.0mmx2.5mm SMT LED, 1.1mm thickness.
- Bi-color, Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode. The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008)$ unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
4. The device has a single mounting surface. The device must be mounted according to the specifications.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
KPB-3025SRCGKC-PRV	Super Bright Red (GaAlAs)	Water Clear	55	100	120°
	Green (AlGaInP)		30	60	

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Super Bright Red Green	660 574		nm	I _F =20mA
λ _D [1]	Dominant Wavelength	Super Bright Red Green	640 570		nm	I _F =20mA
Δλ _{1/2}	Spectral Line Half-width	Super Bright Red Green	20 20		nm	I _F =20mA
C	Capacitance	Super Bright Red Green	45 15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Super Bright Red Green	1.85 2.1	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Red Green		10 10	uA	V _R = 5V

Notes:

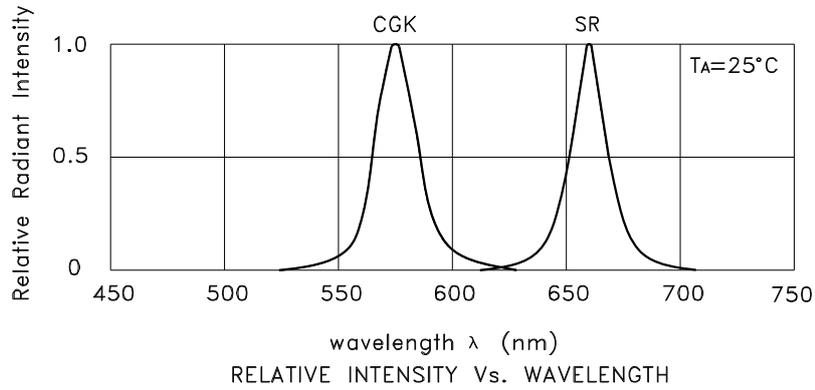
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

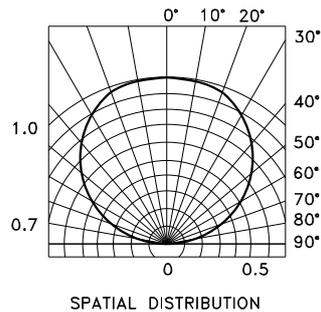
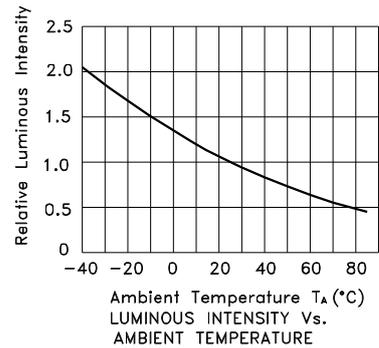
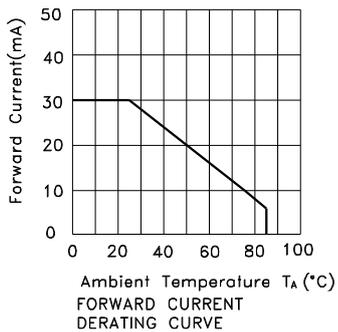
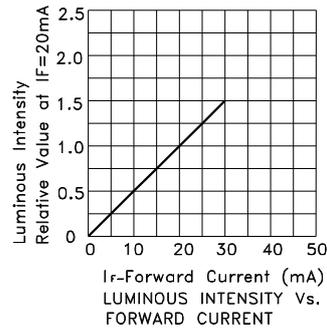
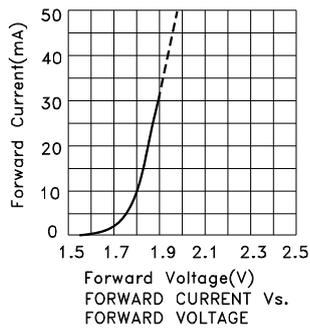
Parameter	Super Bright Red	Green	Units
Power dissipation	75	75	mW
DC Forward Current	30	30	mA
Peak Forward Current [1]	155	150	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

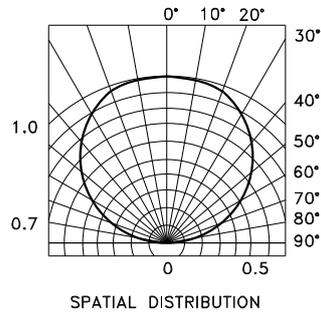
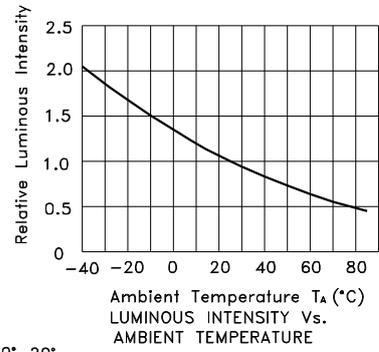
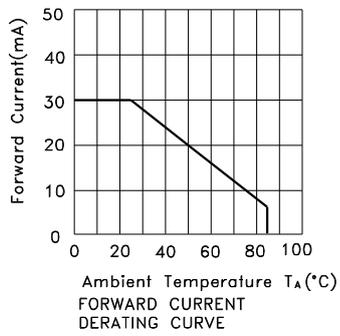
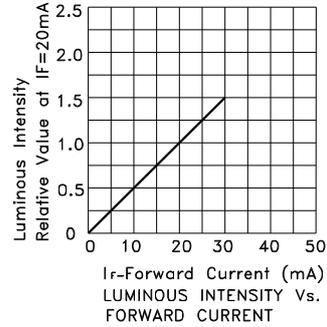
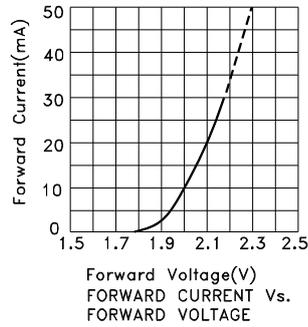
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPB-3025SRCGKC-PRV Super Bright Red

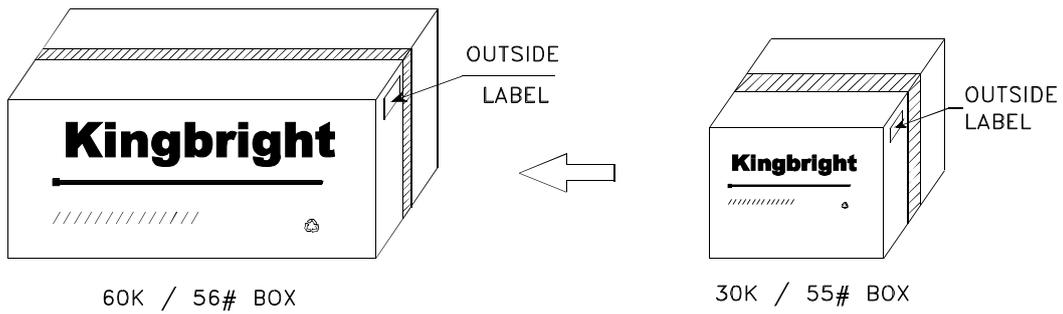
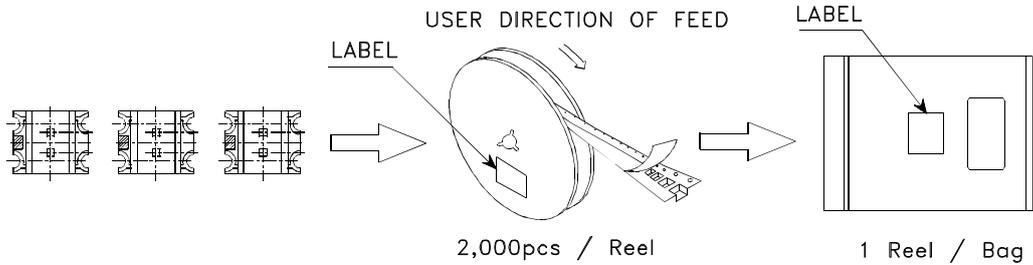


Green



PACKING & LABEL SPECIFICATIONS

KPB-3025SRCGKC-PRV



<h1>Kingbright</h1>	
P/NO: KPB-3025xxx	
QTY: 2,000 pcs	Q.C. Q C XX XX XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 xxxxxxxxxxxxxxxxxxxxxxxxxxxx	
RoHS Compliant	