### 4.0x4.0mm RIGHT ANGLE SURFACE MOUNT LED LAMP

Part Number: KA-4040SRCGKS-R

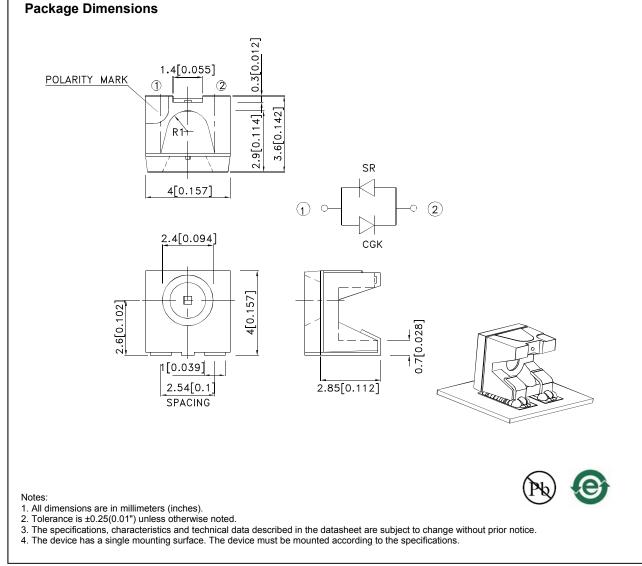
Super Bright Red Green

#### Features

- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package : 500pcs / 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.

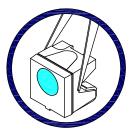


REV NO: V.3A CHECKED: Allen Liu DATE: MAY/13/2013 DRAWN: Y.Liu PAGE: 1 OF 7 ERP: 1201006686

#### **Handling Precautions**

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.



2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.





3. As silicone encapsulation is permeable to gases, some corrosive substances such as  $H_2S$  might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.

Detailed application notes are listed on our website. http://www.kingbright.com/application\_notes

#### **Selection Guide** lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 80 200 Super Bright Red (GaAlAs) \*20 \*60 KA-4040SRCGKS-R Water Clear 120° 40 90 Green (AlGaInP) \*90 \*40

Notes: 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%. \* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red Green	655 574		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Red Green	640 570		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red Green	20 20		nm	I⊧=20mA
С	Capacitance	Super Bright Red Green	45 15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red Green	1.85 2.1	2.5 2.5	V	I⊧=20mA

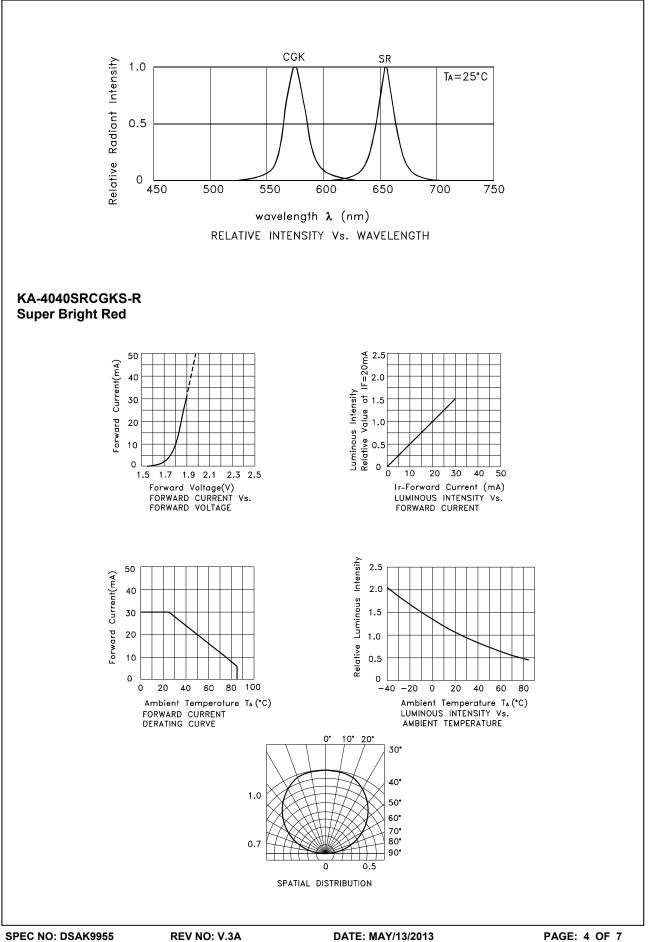
Notes:

Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

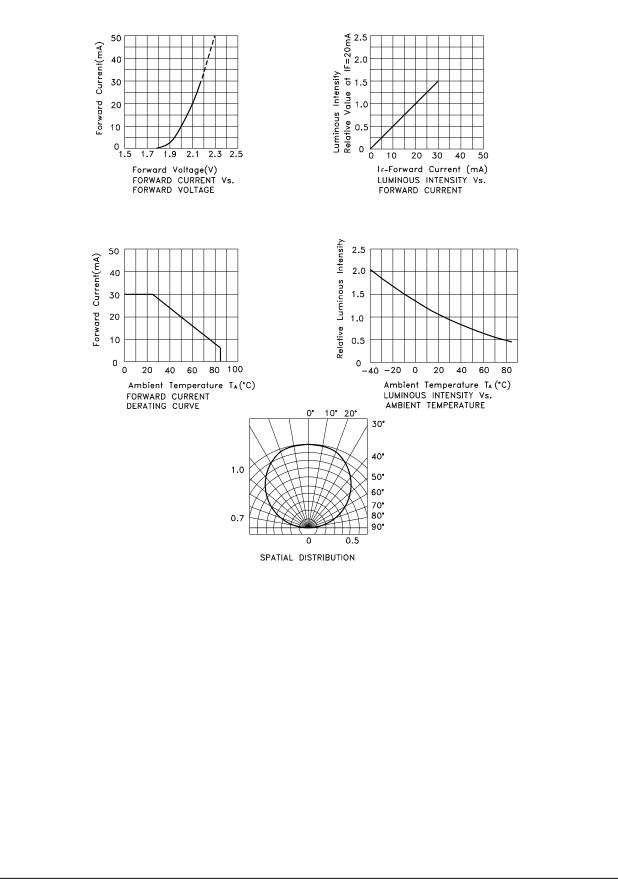
#### Absolute Maximum Ratings at TA=25°C

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

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

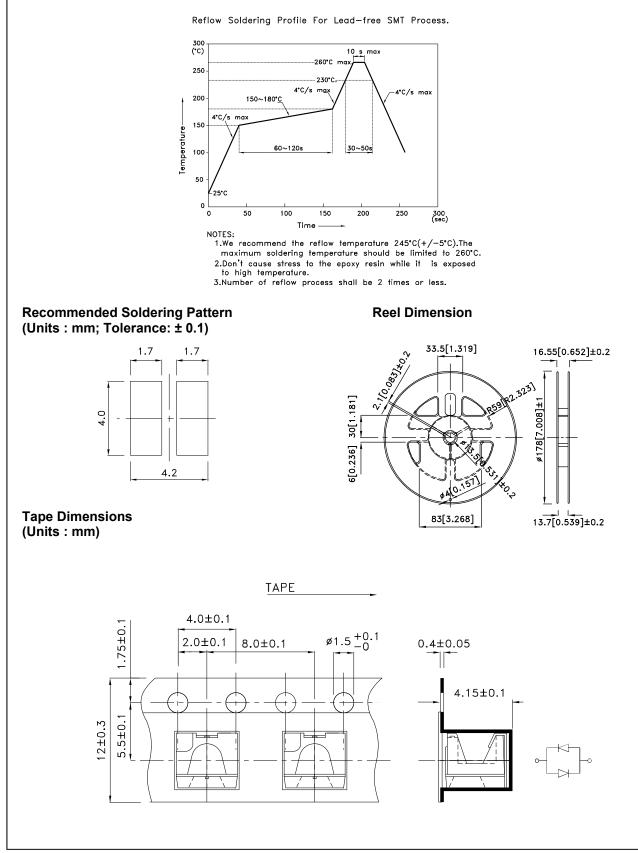


Green

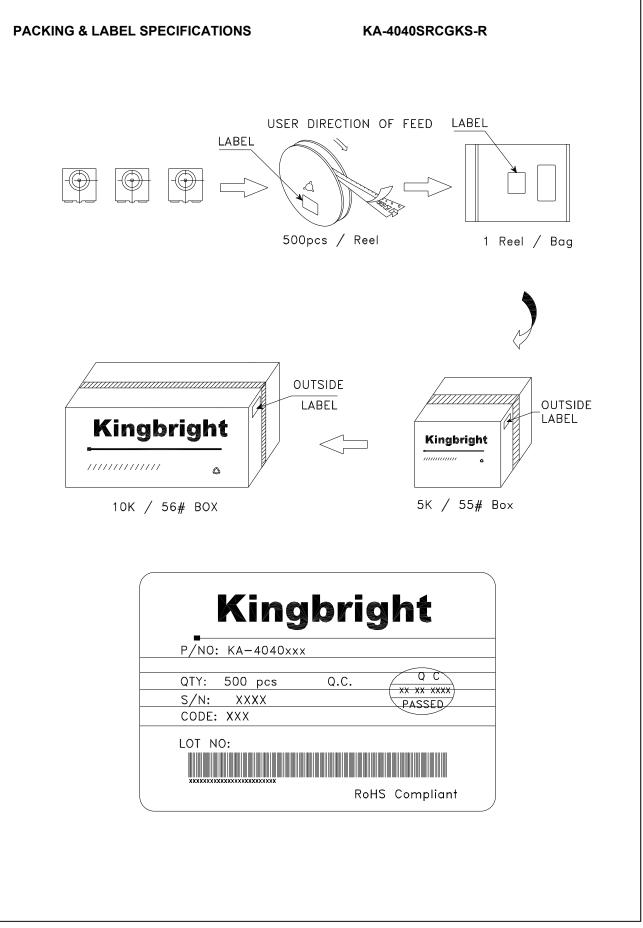


### KA-4040SRCGKS-R

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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