4.0x4.0mm RIGHT ANGLE SURFACE MOUNT LED LAMP

Part Number: KA-4040SRSYKS-R

Super Bright Red Super Bright Yellow

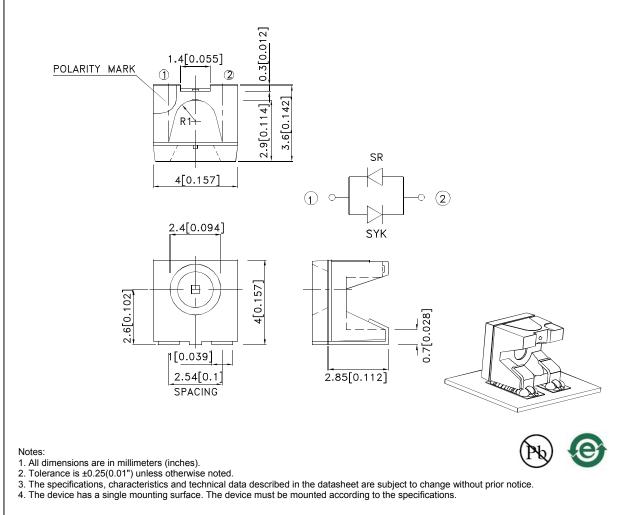
Features

- 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.

Descriptions

- The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.
- The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions



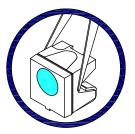
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Handling Precautions

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.

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KA-4040SRSYKS-R	Super Bright Red (GaAlAs)	Water Clear	80	200	120°
			*20	*60	
	Super Bright Yellow (AlGaInP)		100	250	
			*100	*250	

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

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 Super Bright Yellow	655 590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Red Super Bright Yellow	640 590		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red Super Bright Yellow	20 20		nm	I⊧=20mA
С	Capacitance	Super Bright Red Super Bright Yellow	45 20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red Super Bright Yellow	1.85 2	2.5 2.5	V	I⊧=20mA

Notes:

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

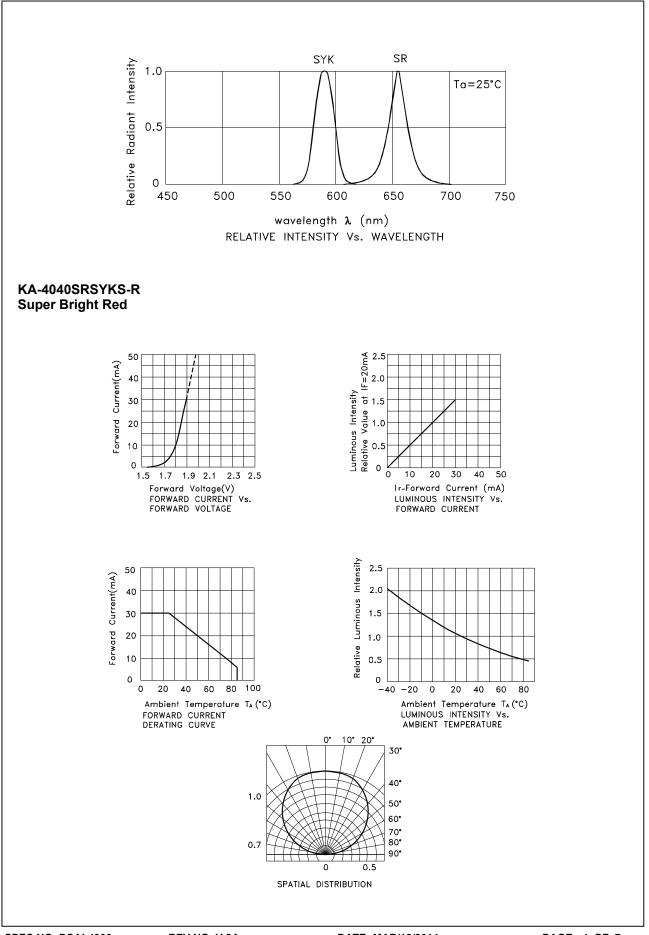
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

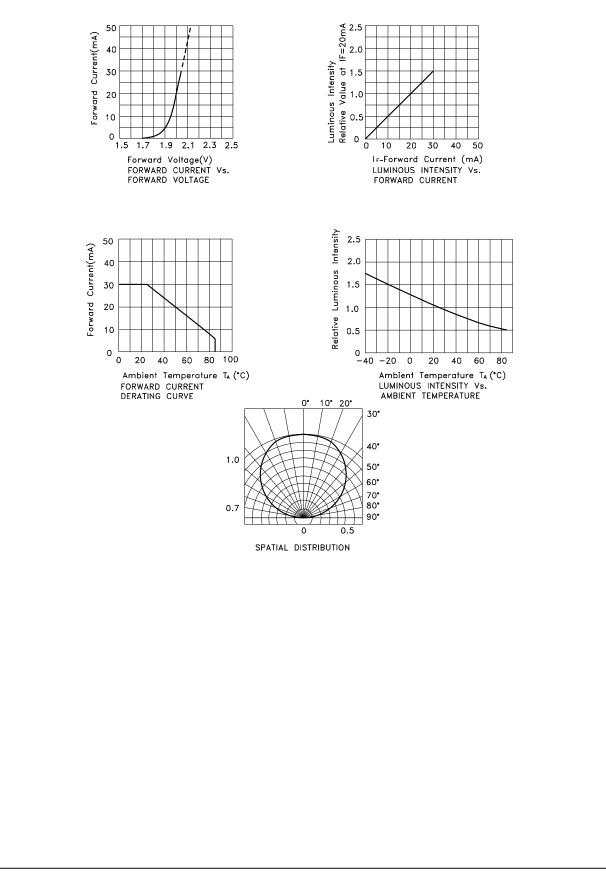
Parameter	Super Bright Red	Super Bright Yellow	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	155	175	mA		
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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

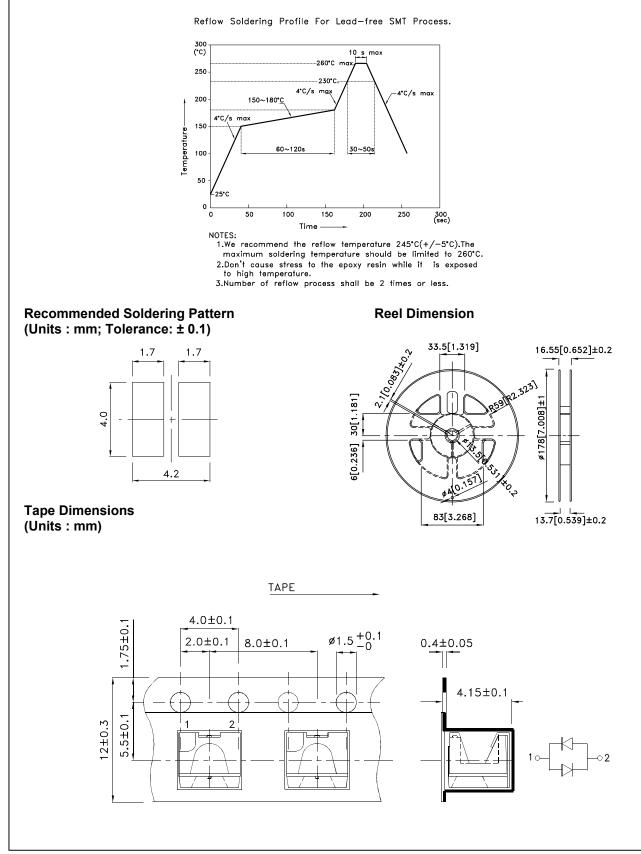


Super Bright Yellow

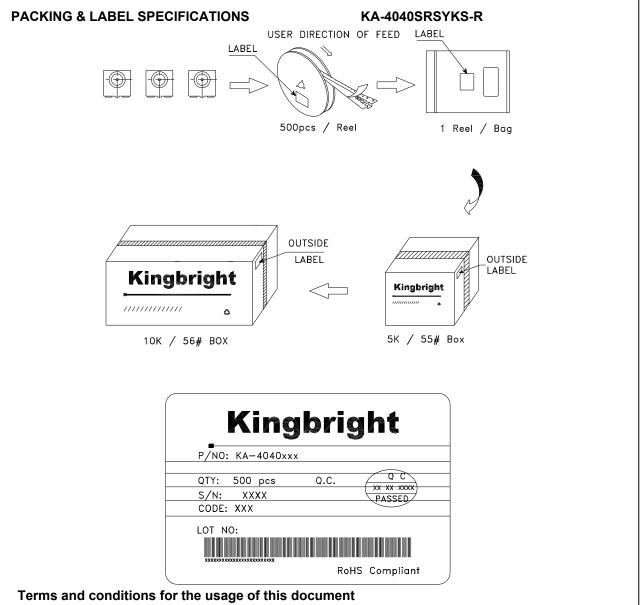


KA-4040SRSYKS-R

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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