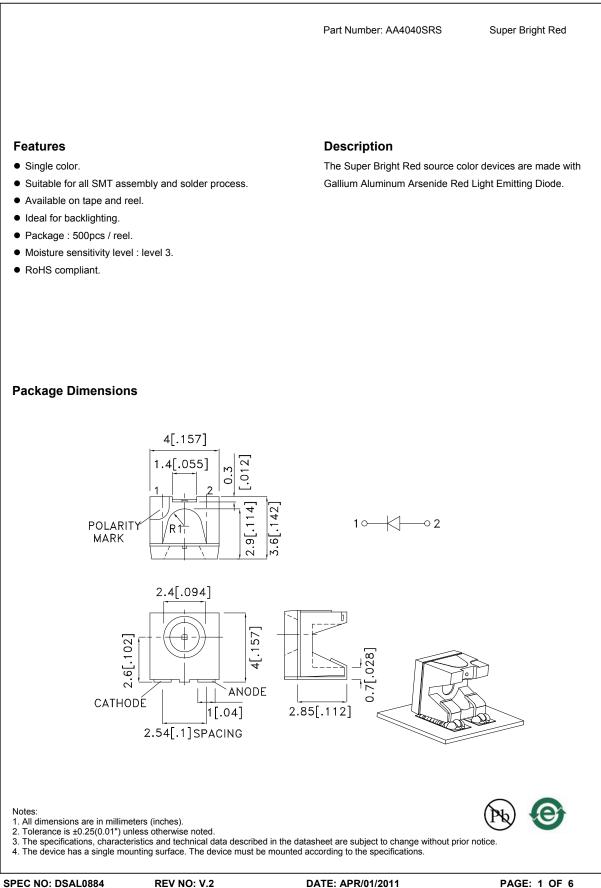
### 4.0x4.0mm RIGHT ANGLE SURFACE MOUNT LED LAMP



DRAWN: J.Yu

ERP: 1201006677

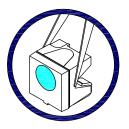
APPROVED: WYNEC

**CHECKED:** Allen Liu

#### **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.

SPEC NO: DSAL0884 APPROVED: WYNEC REV NO: V.2 CHECKED: Allen Liu DATE: APR/01/2011 DRAWN: J.Yu PAGE: 2 OF 6 ERP: 1201006677

Selection Guide										
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]					
			Min.	Тур.	201/2					
AA4040SRS	Super Bright Red (GaAlAs)	Water Clear	80	200	120°					

Notes:

1.  $\theta$ 1/2 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	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660		nm	l⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	l⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	l⊧=20mA
С	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red	1.85	2.5	V	l⊧=20mA
IR	Reverse Current	Super Bright Red		10	uA	VR=5V

Notes:

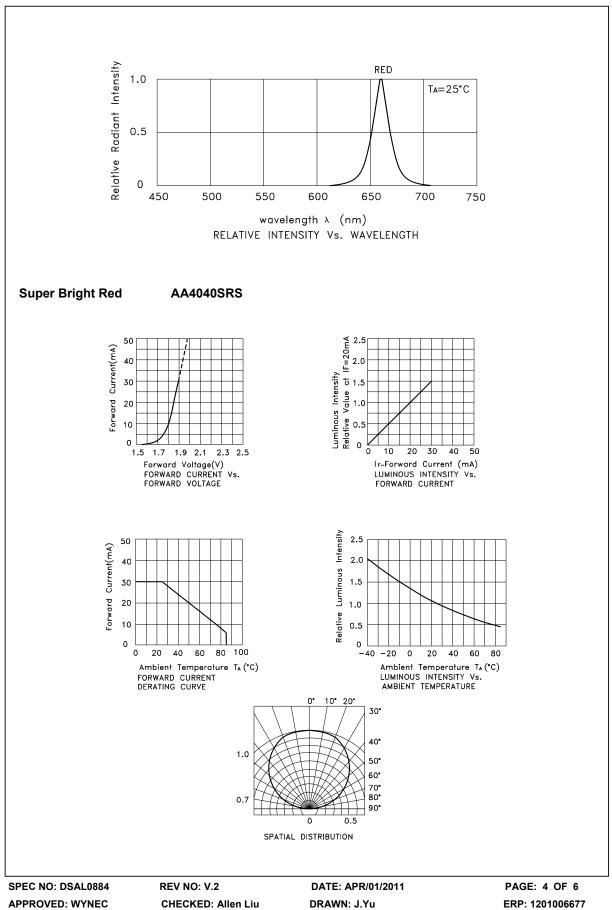
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

Parameter	Super Bright Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	155	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.

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### AA4040SRS

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.

