2.7x3.5mm SURFACE MOUNT LED LAMP

Part Number: AA2735SRSGS

Super Bright Red Super Bright Green

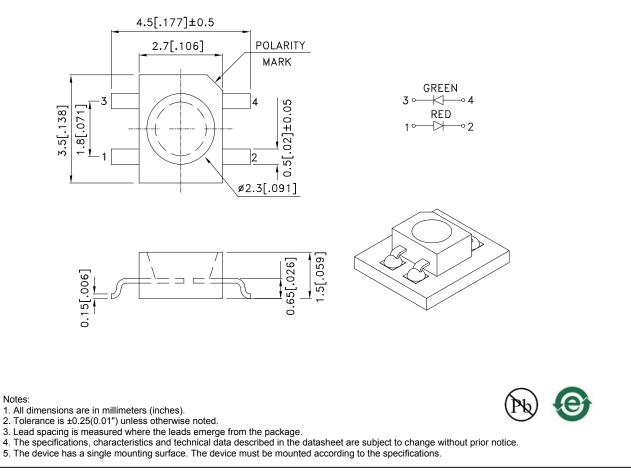
Features

- 2.7mm X 3.5mm SMT LED, 1.5mm height only.
- Both chips can be controlled separately.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package: 1000pcs / 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 Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions

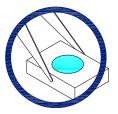


SPEC NO: DSAM0513 APPROVED: WYNEC REV NO: V.1 CHECKED: Allen Liu DATE: AUG/24/2011 DRAWN: D.M.Su PAGE: 1 OF 7 ERP: 1201006880

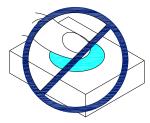
Handling Precautions

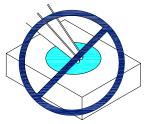
Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using 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.

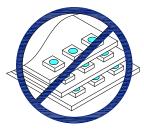


2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.

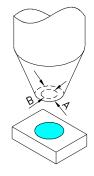




3. Do not stack together assembled PCBs containing exposed LEDs. Impact may scratch the silicone lens or damage the internal circuitry.



- 4.1. The inner diameter of the SMD pickup nozzle should not exceed the size of the LED to prevent air leaks.
- 4.2. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 4.3. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



5. 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.

DATE: AUG/24/2011 DRAWN: D.M.Su

Part No. Dice Lens Type @ 20mA					
i alt noi			Min.	Тур.	201/2
AA2735SRSGS	Super Bright Red (GaAlAs)	Weter Clear	80	150	- 120°
	Super Bright Green (GaP)	Water Clear	12	30	

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%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red Super Bright Green	660 565		nm	l⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Red Super Bright Green	640 568		nm	l⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red Super Bright Green	20 30		nm	I⊧=20mA
С	Capacitance	Super Bright Red Super Bright Green	45 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Red Super Bright Green	1.85 2.2	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Red Super Bright Green		10 10	uA	VR = 5V

Notes:

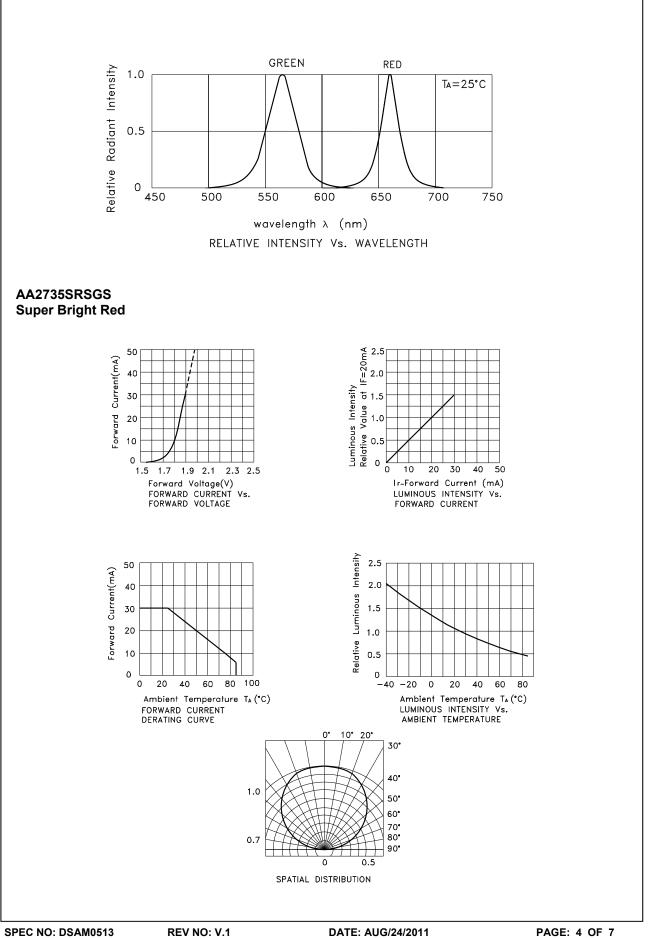
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

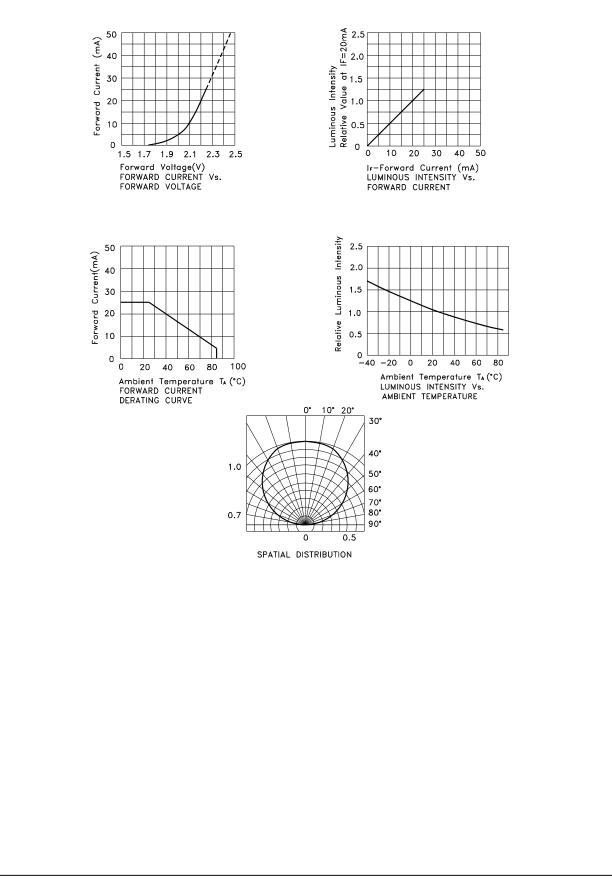
Parameter	Super Bright Red	Super Bright Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	155	140	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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

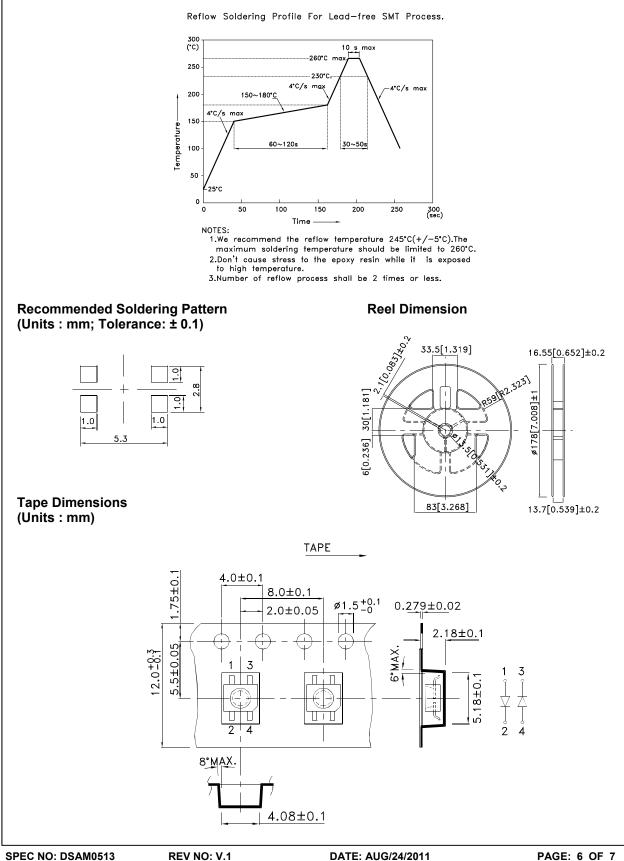


Super Bright Green

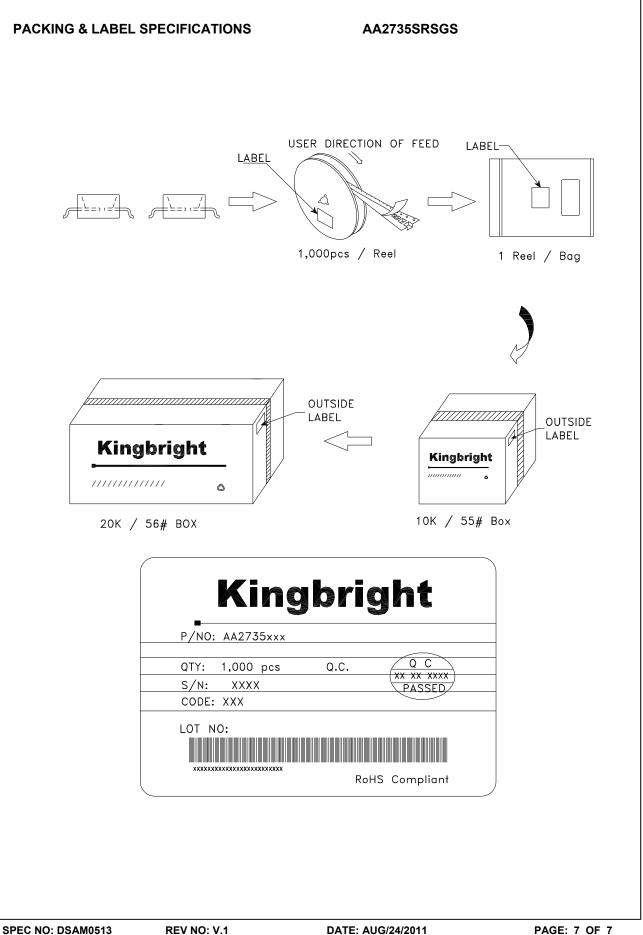


AA2735SRSGS

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.



DRAWN: D.M.Su



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