### SOT-23 SURFACE MOUNT LED LAMP

Part Number: AM23SRC-F

Super Bright Red

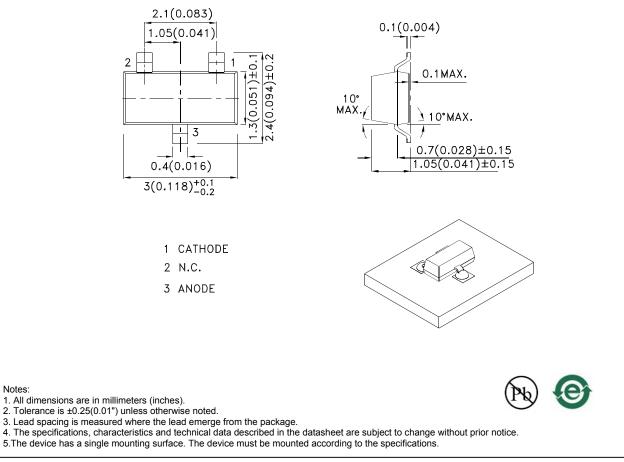
#### **Features**

- SOT-23 package surface mount LED lamp.
- Low power consumption.
- Long life solid state reliability.
- 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.

#### **Package Dimensions**



SPEC NO: DSAD1247 **APPROVED: WYNEC** 

Notes:

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PAGE: 1 OF 5 ERP: 1202000076

#### Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
Fait NO.	Dice	Lens Type	Min.	Тур.	201/2
AM23SRC-F	Super Bright Red (GaAlAs)	Water Clear	55	100	140°
		Water Clear	*20	*40	

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%.

\* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

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

Symbol	Parameter	Device	Ту	/p.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Super Bright Red	660	*655		nm	I⊧=20mA	
λD [1]	Dominant Wavelength	Super Bright Red	640	*640		nm	I⊧=20mA	
Δλ1/2	Spectral Line Half-width	Super Bright Red	20			nm	IF=20mA	
С	Capacitance	Super Bright Red	45			pF	VF=0V;f=1MHz	
Vf [2]	Forward Voltage	Super Bright Red	1.85		2.5	V	IF=20mA	
lr	Reverse Current	Super Bright Red			10	uA	VR = 5V	

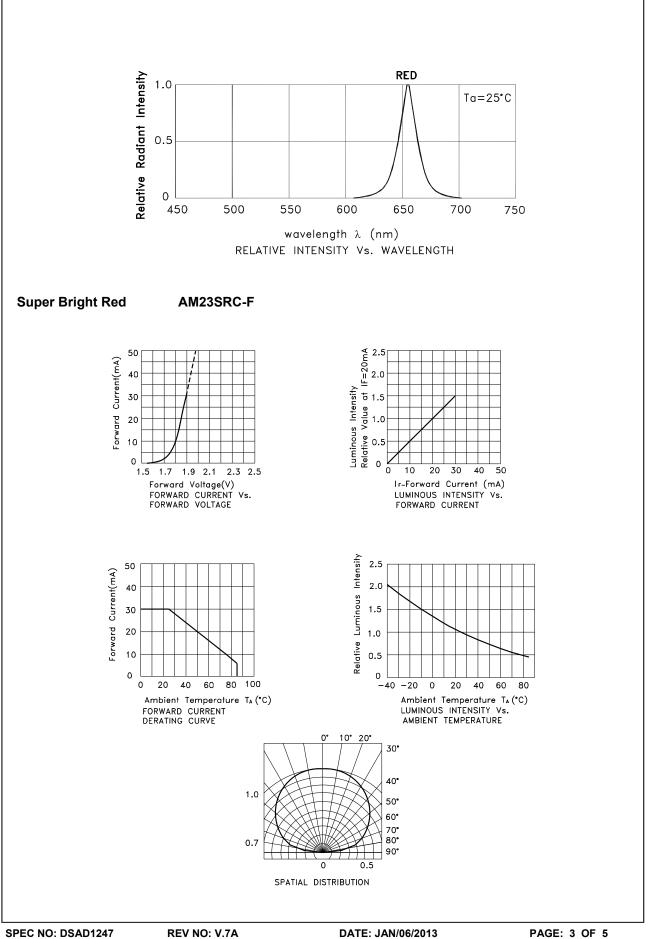
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. \* Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

Parameter	Super Bright Red	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:

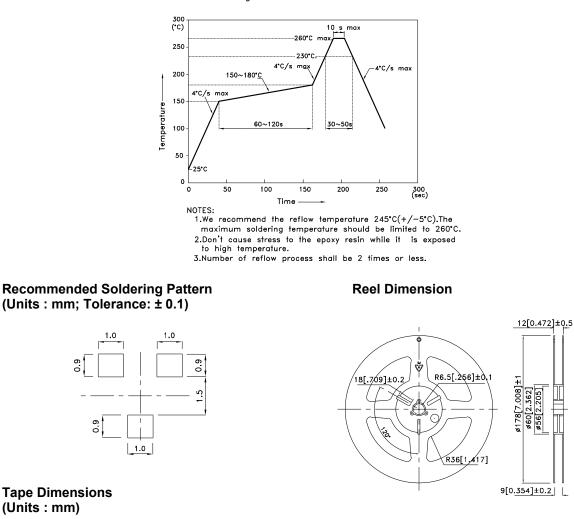
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

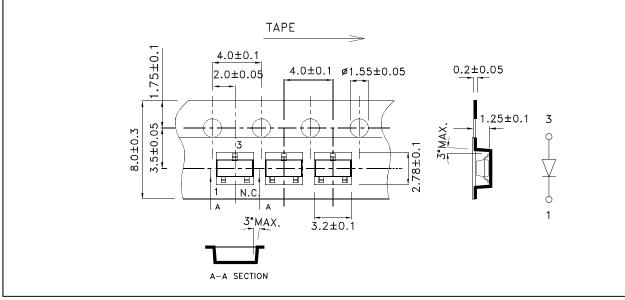


### AM23SRC-F

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.

Reflow Soldering Profile For Lead-free SMT Process.





SPEC NO: DSAD1247 APPROVED: WYNEC REV NO: V.7A CHECKED: Allen Liu DATE: JAN/06/2013 DRAWN: Y.Liu PAGE: 4 OF 5 ERP: 1202000076

