

SUBMINIATURE SOLID STATE LAMP

Part Number: AM2520SRC09-RV Super Bright Red

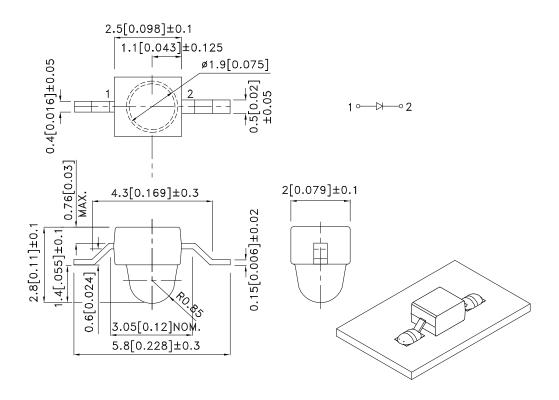
Features

- Subminiature package.
- ●Z-bend lead.
- ●Long life solid state reliability.
- ●Low package profile.
- •Moisture sensitivity level : level 3.
- ●Package: 1000pcs / reel.
- ●RoHS compliant.

Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.
- 5. The device has a single mounting surface. The device must be mounted according to the specifications.





SPEC NO: DSAJ1363 **REV NO: V.1 DATE: FEB/12/2009** PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1202002070

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		21	Min.	Тур.	201/2
AM2520SRC09-RV	Super Bright Red (GaAlAs)	WATER CLEAR	110	600	20°

Notes:

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline 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	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	I==20mA
С	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red	1.85	2.5	V	I==20mA
lr	Reverse Current	Super Bright Red		10	uA	V _R =5V

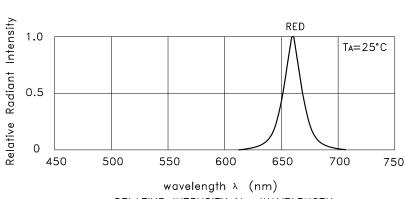
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Absolute Maximum Natings at 1A 25 5					
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				

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

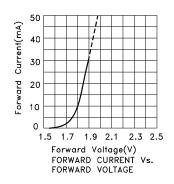
SPEC NO: DSAJ1363 **REV NO: V.1** DATE: FEB/12/2009 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1202002070

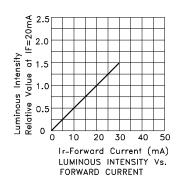


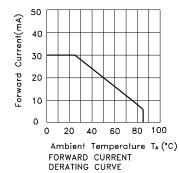
RELATIVE INTENSITY Vs. WAVELENGTH

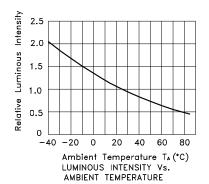
Super Bright Red

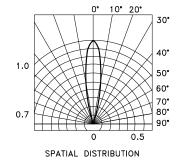
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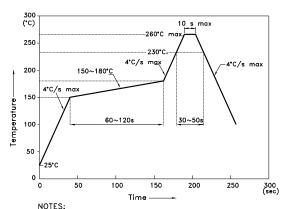


SPEC NO: DSAJ1363 **REV NO: V.1** DATE: FEB/12/2009 PAGE: 3 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** ERP: 1202002070 DRAWN: Y.F.Lu

AM2520SRC09-RV

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.



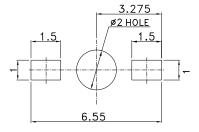
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

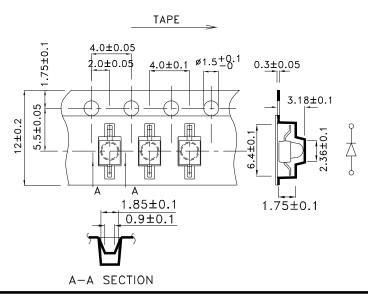
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

 3.Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

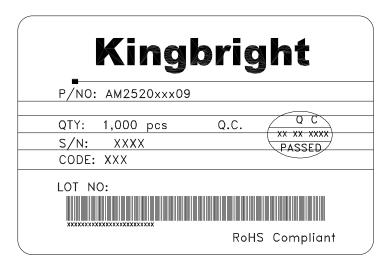


Tape Dimensions (Units: mm)



SPEC NO: DSAJ1363 **REV NO: V.1 DATE: FEB/12/2009** PAGE: 4 OF 5 **APPROVED: WYNEC CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1202002070

PACKING & LABEL SPECIFICATIONS AM2520SRC09-RV USER DIRECTION OF FEED LABEL LABEL 1,000pcs / Reel 1 Reel / Bag OUTSIDE LABEL Kingbright Kingbright LABEL Kingbright



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20K / 56# BOX

DATE: FEB/12/2009 DRAWN: Y.F.Lu

10K / 55# Box

PAGE: 5 OF 5 ERP: 1202002070

Mouser Electronics

Authorized Distributor

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