SUBMINIATURE SOLID STATE LAMP

Part Number: AM2520SRC09-RV Super Bright Red

Features Description •Subminiature package. The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode. •Z-bend lead. •Long life - solid state reliability. Low package profile. •Moisture sensitivity level : level 3. •Package : 1000pcs / reel. •RoHS compliant. **Package Dimensions** 2.5[0.098]±0.1 1.1[0.043]±0.125 0.4[0.016]±0.05 ø1.9[0.075] 0.76[0.03] 2[0.079]±0.1 4.3[0.169]±0.3 MAX. $0.15[0.006]\pm0.02$ 2.8[0.11]±0.1 4[.055]±0. .6[0.024] 3.05[0.12]NOŴ. o 5.8[0.228]±0.3 Notes: All dimensions are in millimeters (inches). 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]
			Min.	Тур.	201/2
AM2520SRC09-RV	Super Bright Red (GaAlAs)	WATER CLEAR	110	600	20°

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
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	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	I⊧=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
IR	Reverse Current	Super Bright Red		10	uA	VR=5V

Notes:

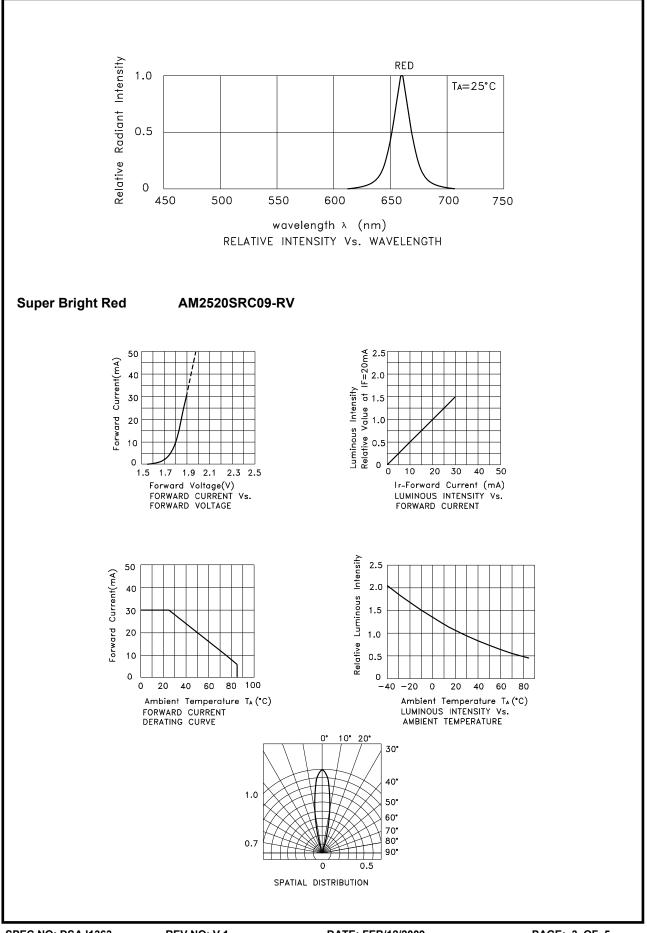
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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:

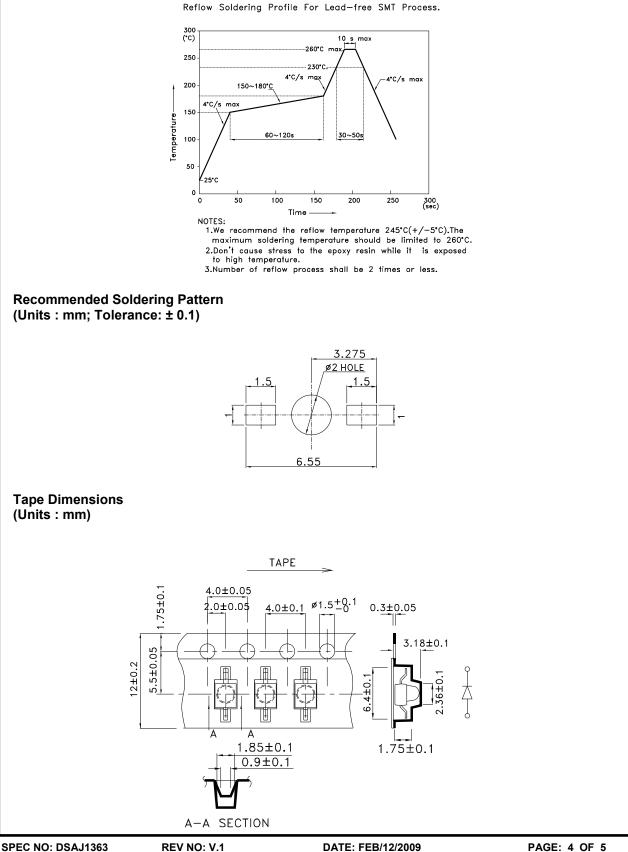
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



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.



REV NO: V.1 **CHECKED: Allen Liu** PAGE: 4 OF 5 ERP: 1202002070

