SUBMINIATURE SOLID STATE LAMP

Part Number: AM2520SRC03



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

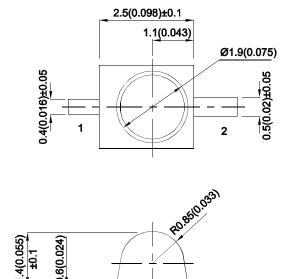
Features

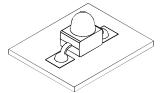
- Subminiature package.
- Gull wing lead.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Package : 1000pcs / reel.
- RoHS compliant.

Descriptions

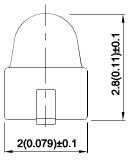
- The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions









Notes:

1. All dimensions are in millimeters (inches).

0.13 May

- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

0.15(0.006)±0.02

5. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAA4194 APPROVED: Wynec REV NO: V.12A CHECKED: Allen Liu

4.5(0.177)±0.5

DATE: SEP/01/2016 DRAWN: W.Q.Zhong PAGE: 1 OF 5 ERP: 1202000669

Solaction Guida

Selection Guide					
Part No.	Emitting Color (Material) Lens Type		Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AM2520SRC03	Super Bright Red (GaAlAs)	Water Clear	600	800	- 20°
			*300	*600	

Notes:

1. θ 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 CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	655		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.

Forward Voltage: +/-0.1V.
Wavelength value is traceable to CIE127-2007 standards.

4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

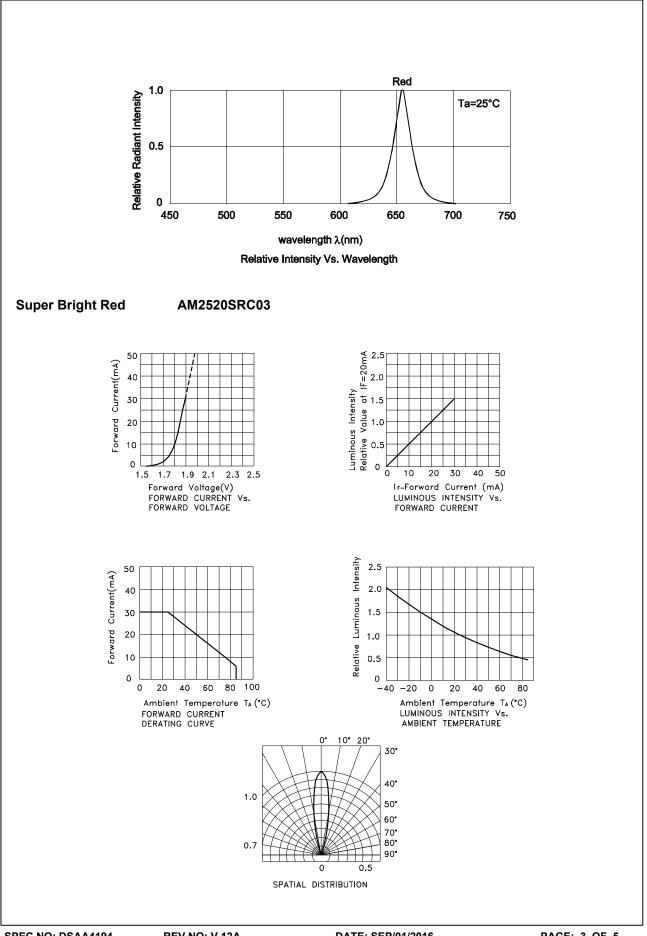
Absolute Maximum Ratings at TA=25°C

Parameter	Values	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			

Notes:

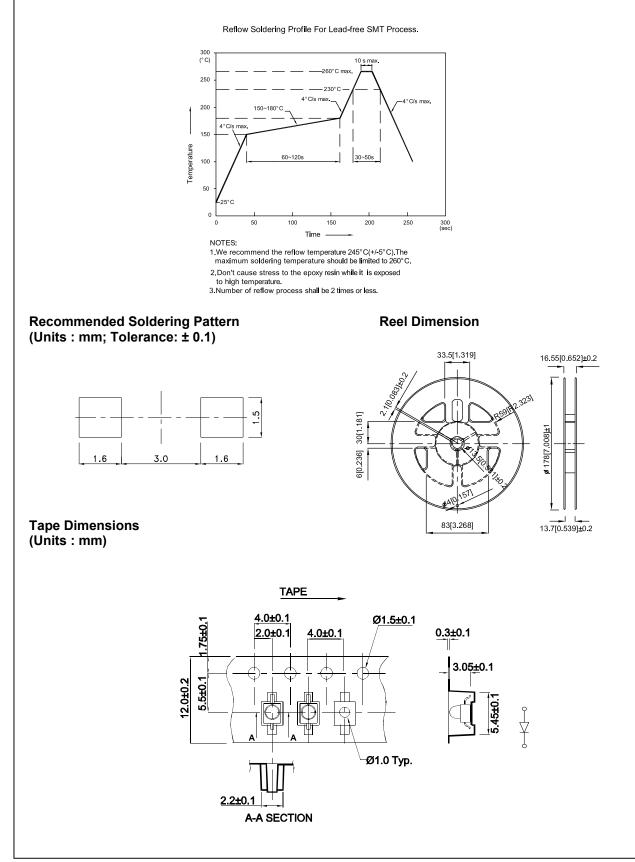
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

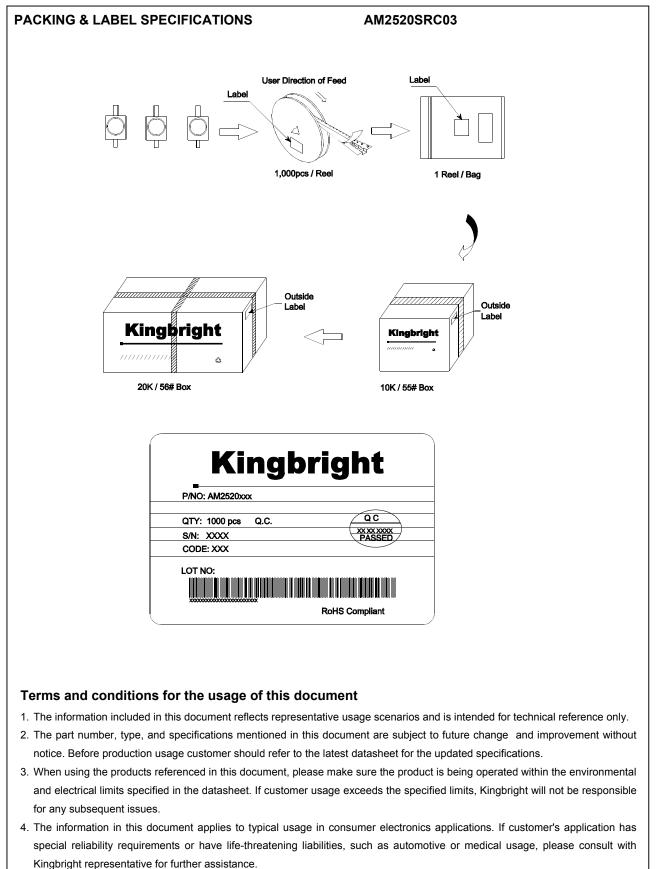


AM2520SRC03

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.



DATE: SEP/01/2016 DRAWN: W.Q.Zhong



- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

DATE: SEP/01/2016 DRAWN: W.Q.Zhong

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard LEDs - SMD category:

Click to view products by Kingbright manufacturer:

Other Similar products are found below :

LTST-C190KYKT LTST-C19GD2WT LTST-N683GBEW LTW-170ZDC LTW-M140SZS40 598-8110-100F 598-8170-100F 598-8610-202F 67-22VRVGC/TR8 AAAF5060QBFSEEZGS HLMA-QG00-S0021 HLMP-6305-L0011 ALMD-LB36-SV002 APT1608QGW 15-21UYC/S530-A3/TR8 EAST2012YA0 EASV1803BA0 LG M67K-H1J2-24-0-2-R18-Z LS A676-P2S1-1 SML310BATT86 SML-LX0606SISUGC/A SML-LXL1307SRC-TR SML-LXR851SIUPGUBC LT1ED53A FAT801-S AM27ZGC03 APB3025SGNC APFA3010SURKCGKQBDC APHK1608VGCA APT2012QGW LTST-C250KGKT LTW-010DCG LTW-020ZDCG LTW-21TS5 LTW-220DS5 LY L29K-H1J2-26 UYGT801-S 42-21UYC/S530-A3/TR8 LO T67F-V1AB-24-1 YGFR411-H 598-8330-117F SML-LX0402IC-TR CMDA20AYAA7D1S CMDA16AYDR7A1X 598-8040-100F 598-8070-100F 598-8140-100F 598-8610-200F EAST2012GA0 EAPL3527GA5