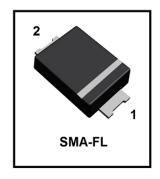


SM550LAF S-SM550LAF

Schottky Barrier Rectifiers Reverse Voltage 50V Forward Current 5.0A

FEATURES

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-0
- * Low power loss,high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- * Guardring for over voltage protection
- * High temperature soldering guaranteed: 260°C/10 seconds at terminals
- * We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements;AEC-Q01 qualified and PPAP capable.





Mechanical Data

Case: JEDEC SMA-FL

molded plastic over glass die **Terminals**: Plated leads, solderable per

MIL-STD-750, Method 2026 **Polarity**: Color band denotes cathode end

Mounting Position: Any

Weight: 28mg

Handling precautin: None

1.Electrical Characteristic

Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	SM550LAF	Unit
device marking code		S55L	
Maximum repetitive peak reverse voltage	V_{RRM}	50	V
Maximum RSM voltage	V_{RSM}	35	V
Maximum DC blocking voltage	V_{DC}	50	V
Maximum average forward rectified current lead length (See fig. 1) at TC = 75°C	IF(AV)	5.0	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	120	Α
Typical thermal resistance (Note 1)	RθJ₄ RθJ∟	150 35	°C/W
Operating junction and storage temperature range	TJ, TSTG	-40 to +150	°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	SM550LAF	Unit
Maximum instantaneous forward voltage at 5.0A	V _F	0.55	V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TJ = 100°C	IR	0.5 30.0	mA
Typical junction capacitance at 4.0V, 1MHz	CJ	247	PF

NOTES:

1. 8.0mm2 (.013mm thick) land areas



SM550LAF S-SM550LAF

2. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

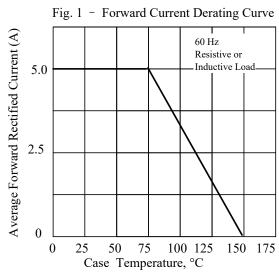


Fig 3. - Typical Instantaneous Forward

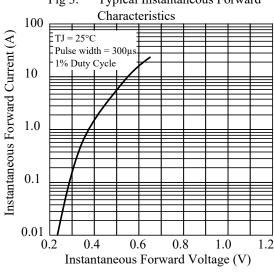


Fig 5. - typical transient thermal

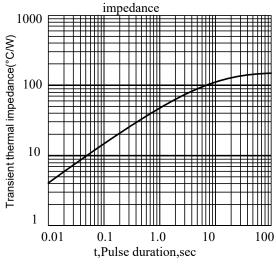


Fig. 2 - Maximum Non-repetitive Peak

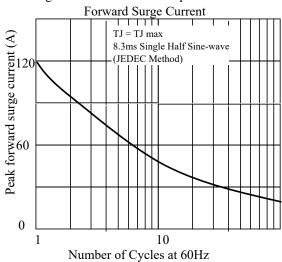


Fig 4. - Typical Reverse Characteristics

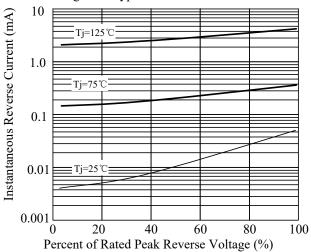
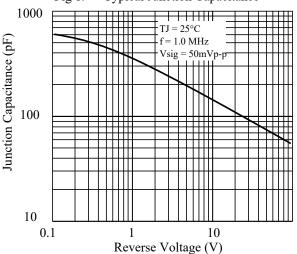
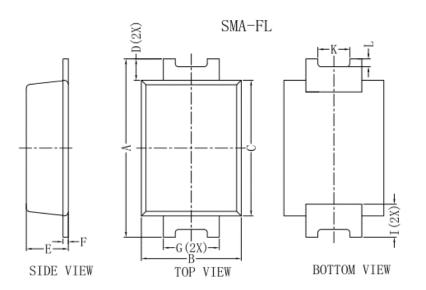


Fig 6. - Typical Junction Capacitance





3.OUTLINE AND DIMENSIONS

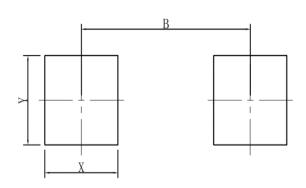


SMA-FL				
DIM	MIN	Тур.		
Α	4.40	4.80	4.60	
В	2.30	2.70	2.60	
С	3.30	3.70	3.50	
D			0.55	
Е	0.90	1.20	1.05	
F	0.11	0.21	0.17	
G	1.30	1.50	1.40	
I	I -		0.90	
K	-	-	0.80	
L -		-	0.20	
All Dimensions in mm				

GENERAL NOTES

- 1.Top package surface finish Ra0.4±0.2um
- 2.Bottom package surface finish Ra0.7±0.2um

4.SOLDERING FOOTPRINT



SMA-FL		
DIM (mm)		
X	1.60	
Υ	1.80	
В	3.70	



DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales represe--ntative.



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8.1.2 Label position and QA stamp position.(Empty area) 标签张贴位置及QA印章位置。(印章盖 标签空白区



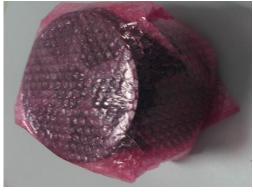
7英寸卷盘标签张贴及QA印章位置



13英寸卷盘标签张贴及QA印章位置

8.1.3 Ensure direction In the same reel. The same steel coil plate direction, With antistatic bubble to package reel. Refer to the below picture.

同一箱内的卷盘方向一致,用防静电泡沫对卷盘进行包裹。



7英寸卷盘防静电泡沫包裹



13英寸卷盘防静电泡沫包裹

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8.1.4 Put in the antistatic packing box after packaged reels. And QA stamp on the box label . 将包装好的卷盘放入防静电纸箱中,并 盒标签上盖章。

产品使用LRC印字内箱。



7 英寸卷盘内盒及标签



13 英寸卷盘内盒及标签

8.1.5 Product use printing inner box.



7英寸卷盘内箱印字(侧面)



13英寸卷盘内箱印字(正面)

8.1.6 Inner box packing quantity requirement.内盒包装数量要求。

Product Description	QTY
SOD123-FL	1-10Reels
SOD323-HE	1-10Reels
SMA-FL	1-7Reels
SMB-FL	1-4Reels

8.1.7 With transparent tape sealing. 透明胶带封箱。

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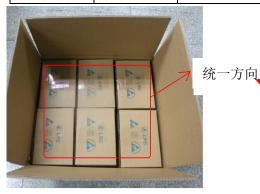


7英寸内箱封盒

13英寸内箱封盒

8.1.8 Outer box size and packing quantity requirement,外箱尺寸及包装数量要求。

Product					
	卷盘尺寸	Height (H)	Width (W)	Length (L)	Max. Qty
Description					
Power	7 苯十	410	400	4.4.5	12
Device	7 英寸	410mm	400mm	445mm	12
Power	13 英寸	410,,,,,,	400,,,,,,,	115	5
Device	13 央リ	410mm	400mm	445mm	3



7 英寸卷盘产品装箱



13 英寸卷盘产品装箱



Title: Power Packages Marking & Taping Specification

功率封装字模和编带规范 Document Number:APS-QA-QS-010

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8. 2 Standard Products Taping Specification

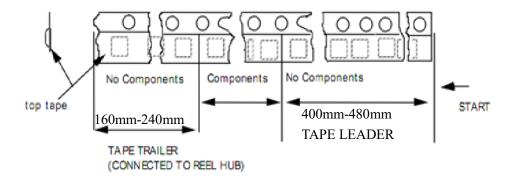
标准产品编带规范

8.2.1 Tape length of no component

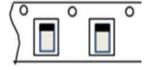
空带长度说明

Taping leader length 引导部分: 440mm±40mm , Tape trailer 尾部: 200mm±40mmt

Figure 4
Tape Ends For Finished Goods Reel



8.2.2 Component packaging orientation: The cathode lead is close to the carrier tape's index hole. 产品放置方向: 印阴极带引脚邻近载带索引孔



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Title: Power Packages Marking & Taping Specification

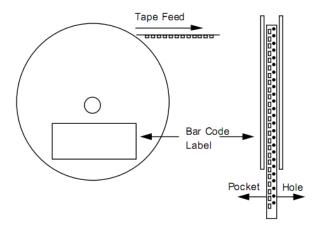
功率封装字模和编带规范

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8.2.3 Tape enwind orientation

编带缠绕方向要求



单击下面可查看定价,库存,交付和生命周期等信息

>>LRC(乐山无线电)