



ULTRA LOW VF SCHOTTKY

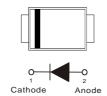
VOLTAGE 45 Volt CURRENT 5 Ampere

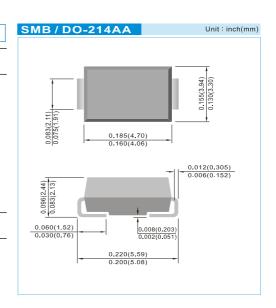
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Package suitable for automated handling
- Low power loss, high efficiency
- High surge capacity
- Ultra low forward voltage drop, low power loss
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case : JEDEC DO-214AA molded plastic
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
 Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounces, 0.092 grams





MAXIMUM RATINGS(Ta=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	45	V
Maximum rms voltage		VRMS	32	V
Maximum dc blocking voltage		VR	45	V
Maximum average forward rectified current		I F(AV)	5	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		IFSM	120	А
Typical thermal resistance	(Note 1)	Roja	135	°C/W
Typical junction capacitance (V _R =4V, f=1MHz)		Cı	350	pF
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтѕ	-55 to + 150	°C

NOTES:

1. Mounted on a FR4 PCB, single-sided copper, mini pad.





ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA		45	-		V
Instantaneous forward voltage	VF	F=1A F=5A	TJ=25°C	-	0.32 0.43	- 0.49	V
		F=1A F=5A	TJ=125°C		0.23 0.41	-	V
Reverse current	l R	VR=36V		-	25		μΑ
		V _R =45V	TJ=25°C TJ=125°C	-	- 10	210 -	μA mA





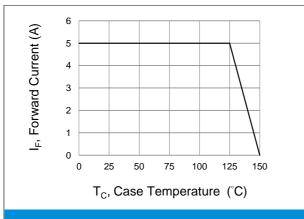


Fig.1 Forward Current Derating Curve

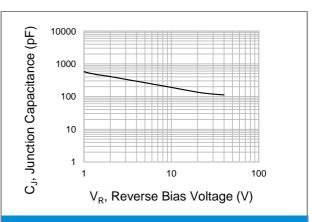


Fig.2 Typical Junction Capacitance

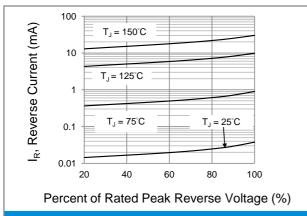


Fig.3 Typical Reverse Characteristics

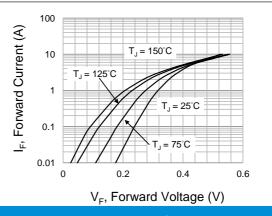


Fig.4 Typical Forward Characteristics

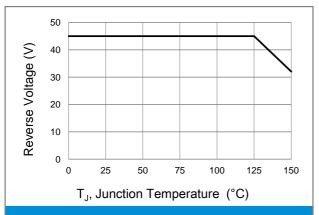
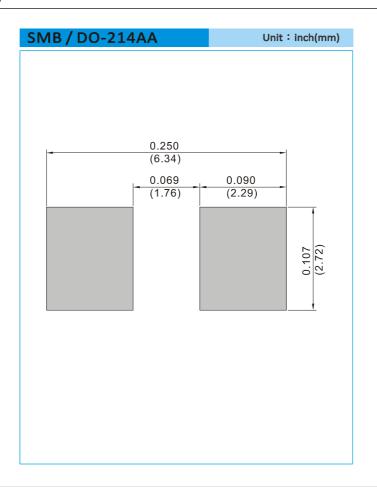


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel





Part No_packing code_Version

SRM54AV_R1_00001 SRM54AV_R2_00001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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