SRM54AV-AU						
MINI SURFA	CE MOUN	T SCHOTTKY	BARRIE			
Voltage	45 V	Current	5 A] [\$		
Features						
Low forward	voltage drop					

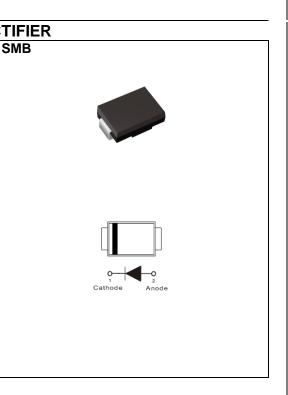
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- Green molding compound as per IEC 61249 standard
- Lead free in compliance with EU RoHS 2.0
- AEC-Q101 qualified

Mechanical Data

- Case: JEDEC DO-214AA molded plastic
- Polarity: Color Band denotes cathode end
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0032 ounces, 0.092 grams

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	45	V
Maximum RMS Voltage	V _{RMS}	32	V
Maximum DC Blocking Voltage	V _{DC}	45	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5	А
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	120	А
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	CJ	350	pF
Typical Thermal Resistance per diode	${\mathsf R}_{ extsf{ heta}JA}^{(1)}$ ${\mathsf R}_{ extsf{ heta}JC}^{(2)}$	135 18	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C







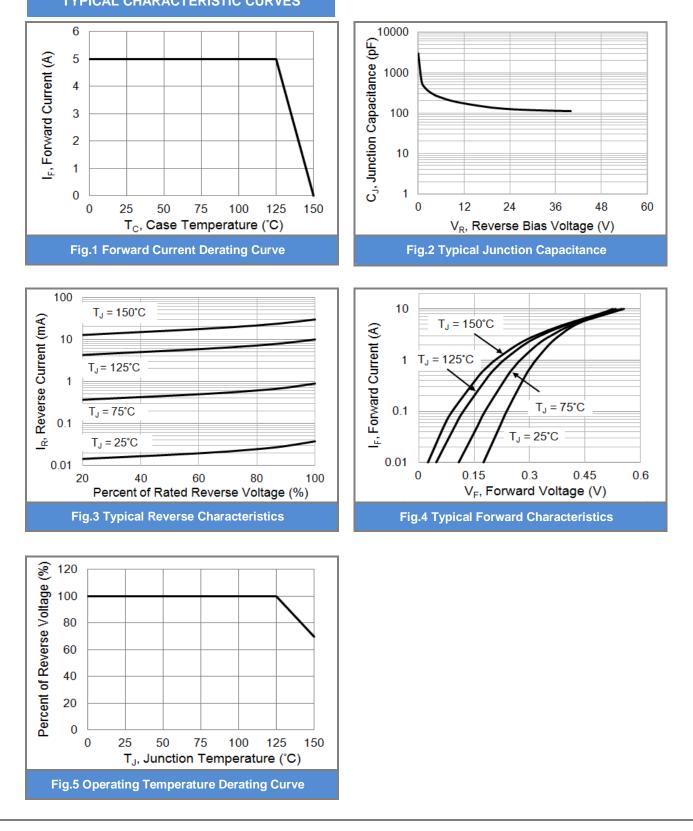


Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
	V _F	$I_F = 1 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.32	-	V
		$I_F = 2 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.35	-	
		$I_F = 5 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.49	
Instantaneous forward voltage		I _F = 1 A, T _J = 125 °C	-	0.23	-	
		$I_F = 2 \text{ A}, T_J = 125 \degree \text{C}$	-	0.29	-	
		$I_F = 5 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.41	-	
	۱ _R ⁽³⁾	$V_{R} = 36 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	25	-	uA
Reverse current		$V_{R} = 45 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	210	
		V _R = 45 V, T _J = 125 °C	-	10	-	mA

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, with mini pad
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect



SRM54AV-AU

TYPICAL CHARACTERISTIC CURVES





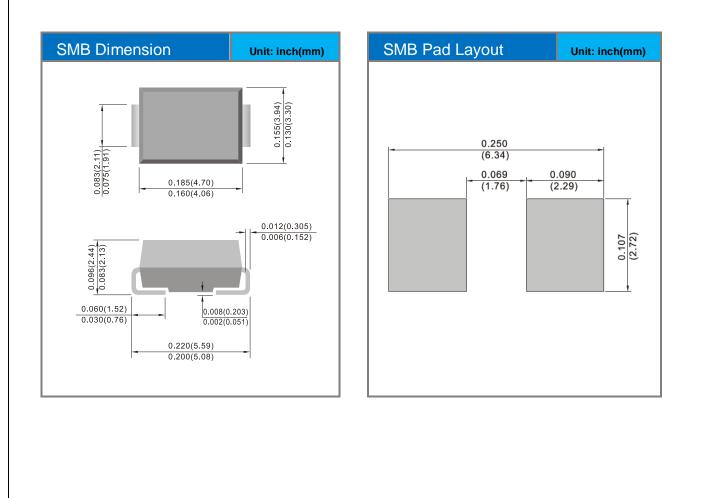


SRM54AV-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SRM54AV-AU_R1_000A1	SMB	800 pcs / 7" reel	SRM54AV	Halogen free

Packaging Information & Mounting Pad Layout





SRM54AV-AU

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