



# SR56F-AU

## SURFACE MOUNT SCHOTTKY DIODES

<b>Voltage</b>	<b>60 V</b>	<b>Current</b>	<b>5 A</b>
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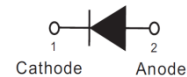
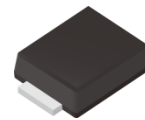
### Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize
- Low profile package
- Low power loss,high efficiency
- High surge capacity
- Easy pick and place package suitable for automated handling
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

### Mechanical Data

- Case: SMBF Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0018 ounces, 0.05 grams

### SMBF



### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum Rms Voltage	V <sub>RMS</sub>	42	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	60	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	5	A
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>	100	A
Maximum Junction Capacitance Measured at 1 MHZ And Applied V <sub>R</sub> = 4 V	C <sub>J</sub>	190	pF
Typical Thermal Resistance	R <sub>θJA</sub> <sup>(1)</sup>	135	°C/W
	R <sub>θJC</sub> <sup>(2)</sup>	18	
	R <sub>θJL</sub> <sup>(2)</sup>	17	
Operating Junction Temperature Range	T <sub>J</sub>	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	$V_F$	$I_F = 1\text{ A}, T_J = 25^\circ\text{C}$	-	0.39	-	V
		$I_F = 2\text{ A}, T_J = 25^\circ\text{C}$	-	0.46	-	
		$I_F = 5\text{ A}, T_J = 25^\circ\text{C}$	-	-	0.7	
		$I_F = 1\text{ A}, T_J = 125^\circ\text{C}$	-	0.3	-	
		$I_F = 2\text{ A}, T_J = 125^\circ\text{C}$	-	0.35	-	
		$I_F = 5\text{ A}, T_J = 125^\circ\text{C}$	-	0.57	-	
Reverse Current	$I_R^{(2)}$	$V_R = 48\text{ V}, T_J = 25^\circ\text{C}$	-	13	-	$\mu\text{A}$
		$V_R = 60\text{ V}, T_J = 25^\circ\text{C}$	-	-	100	$\mu\text{A}$
		$V_R = 60\text{ V}, T_J = 125^\circ\text{C}$	-	14.5	-	mA

**NOTES:**

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



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## TYPICAL CHARACTERISTIC CURVES

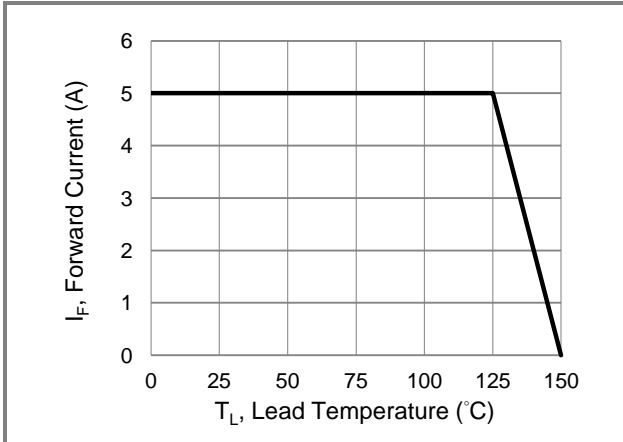


Fig.1 Forward Current Derating Curve

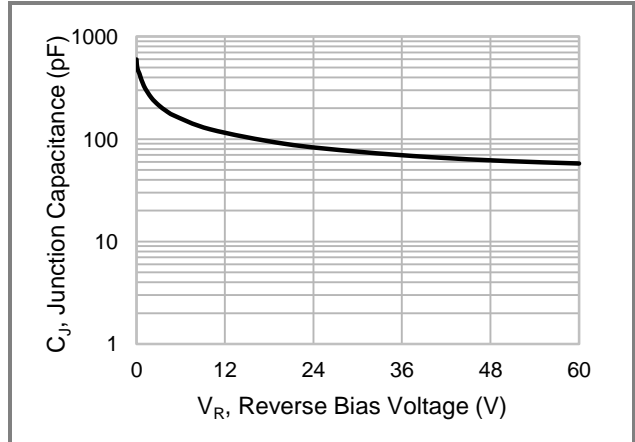


Fig.2 Typical Junction Capacitance

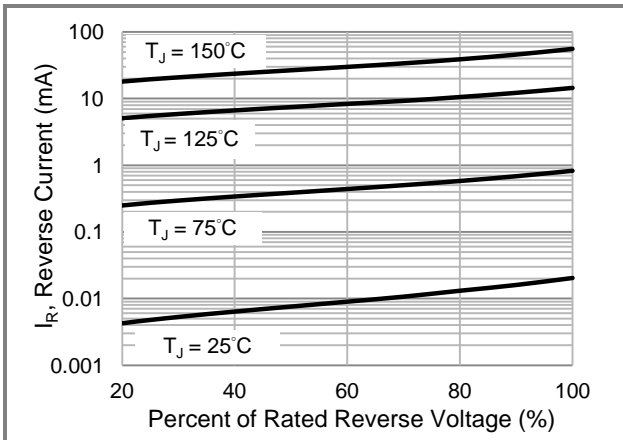


Fig.3 Typical Reverse Characteristics

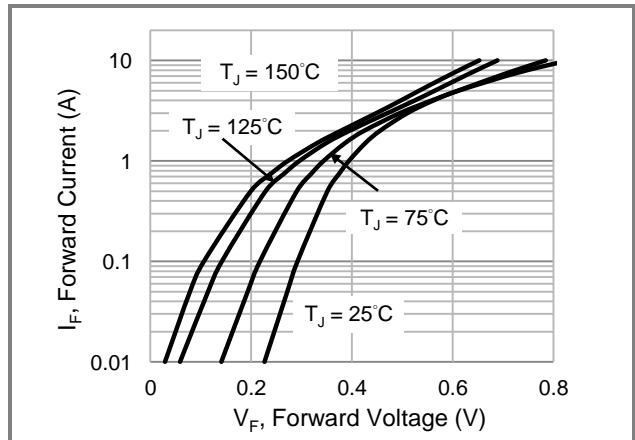


Fig.4 Typical Forward Characteristics

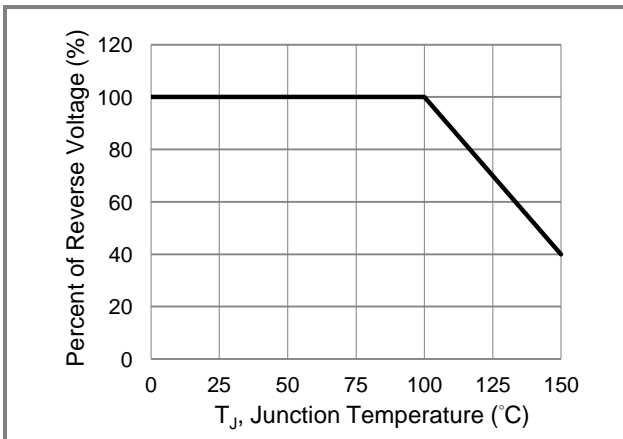


Fig.5 Operating Temperature Derating Curve

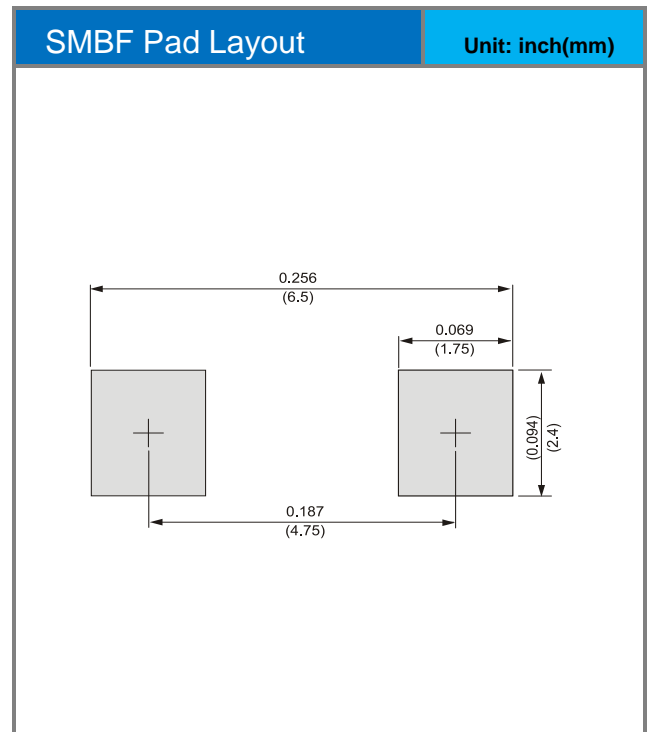
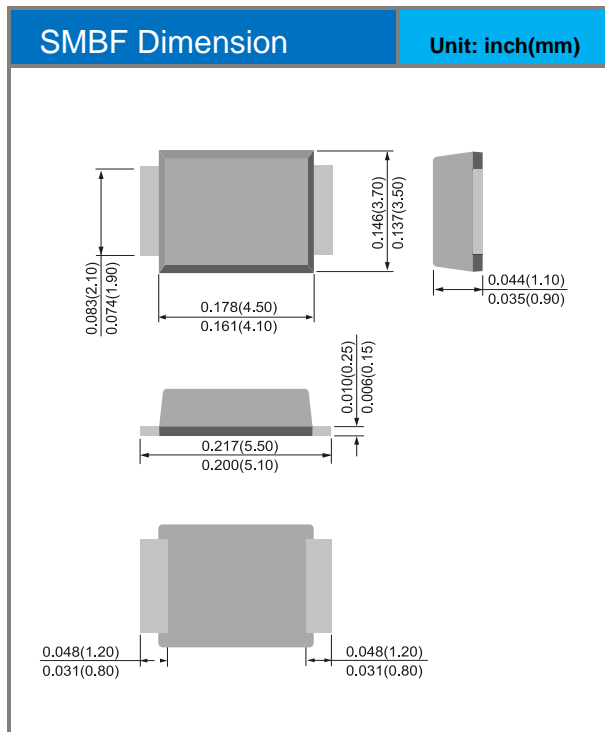


# SR56F-AU

## Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SR56F-AU_R1_000A1	SMBF	5K / 13" Reel	SR56F	Halogen free

## Packaging Information & Mounting Pad Layout





## SR56F-AU

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