



SR56F-AU

SURFACE MOUNT SCHOTTKY DIODES

Voltage	60 V	Current	5 A
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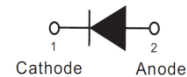
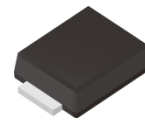
Features

- 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_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	60	V
Maximum Rms Voltage	V _{RMS}	42	V
Maximum Dc Blocking Voltage	V _{DC}	60	V
Maximum Average Forward Current	I _{F(AV)}	5	A
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	100	A
Maximum Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 V	C _J	190	pF
Typical Thermal Resistance	R _{θJA} ⁽¹⁾	135	°C/W
	R _{θJC} ⁽²⁾	18	
	R _{θJL} ⁽²⁾	17	
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-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	-	μA
		$V_R = 60\text{ V}, T_J = 25^\circ\text{C}$	-	-	100	μA
		$V_R = 60\text{ V}, T_J = 125^\circ\text{C}$	-	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

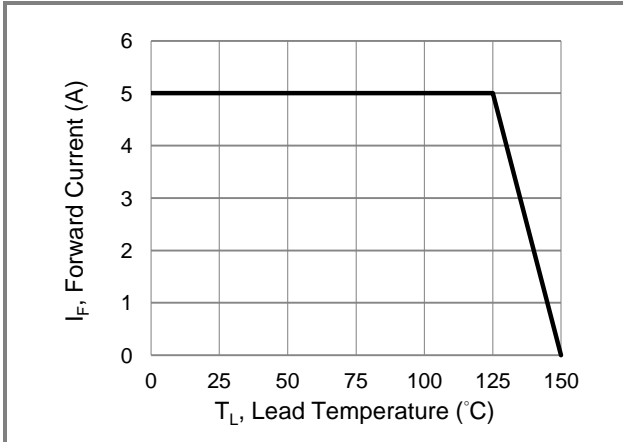


Fig.1 Forward Current Derating Curve

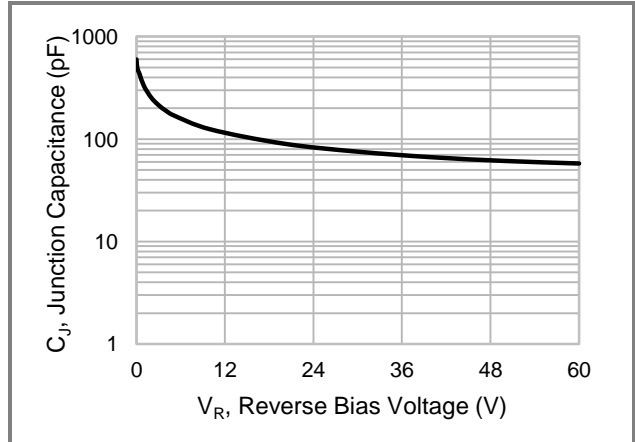


Fig.2 Typical Junction Capacitance

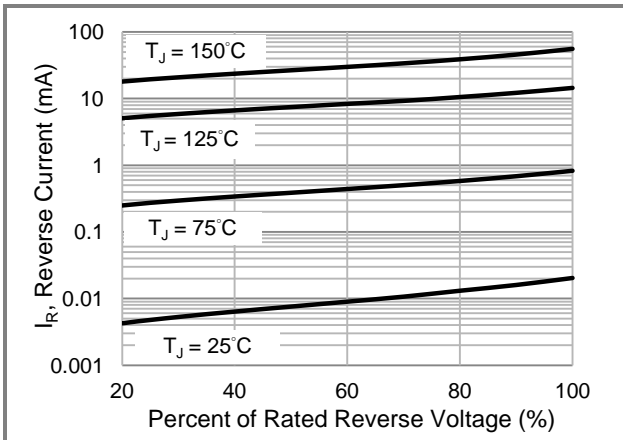


Fig.3 Typical Reverse Characteristics

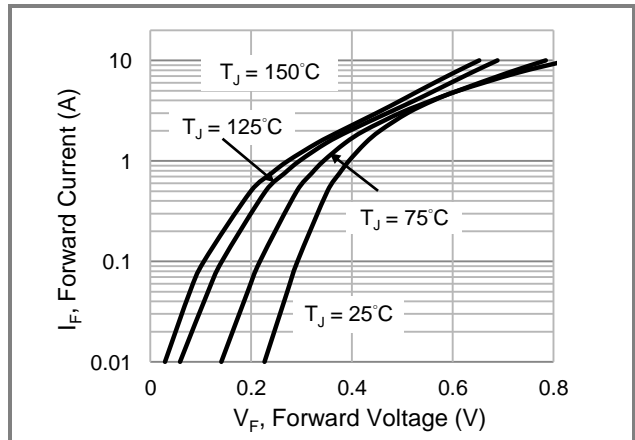


Fig.4 Typical Forward Characteristics

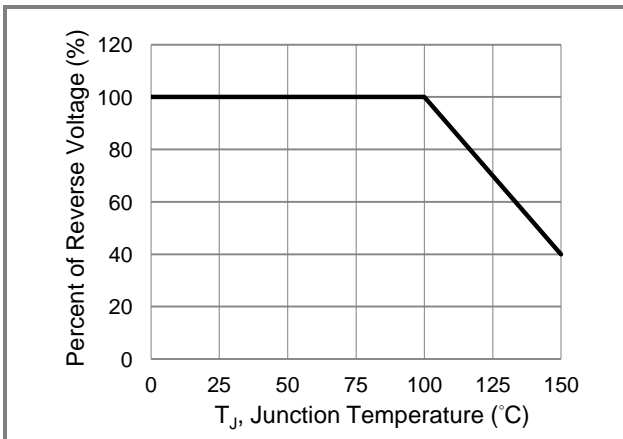


Fig.5 Operating Temperature Derating Curve

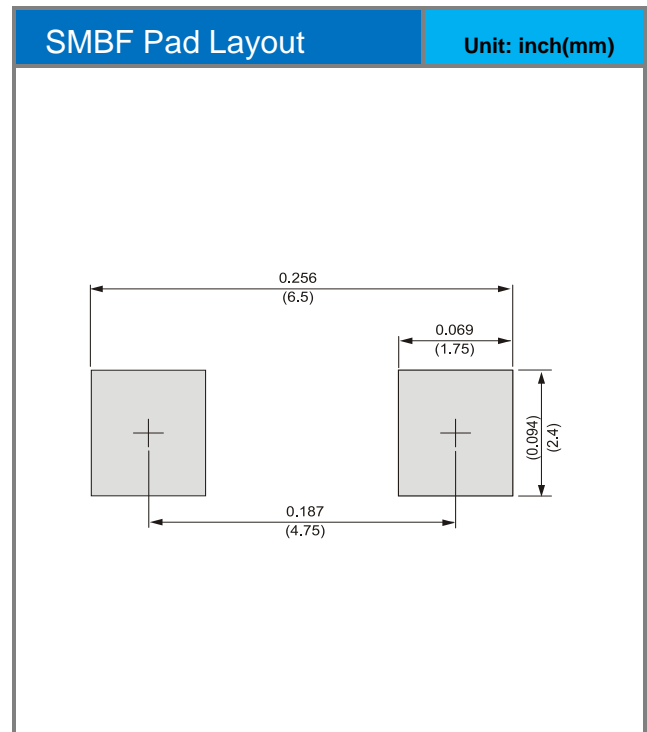
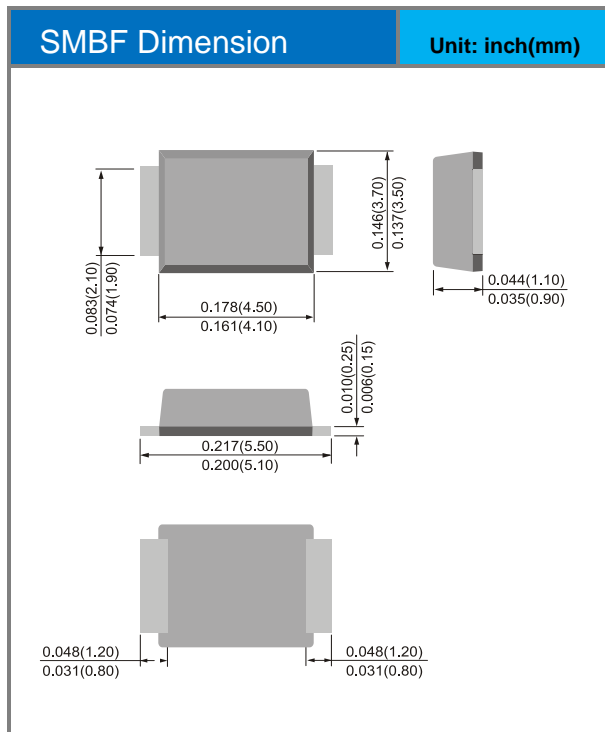


SR56F-AU

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





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