

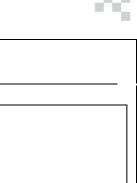
AEC-Q101 qualified

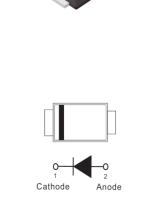
Mechanical Data

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

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ 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	А
Peak Forward Surge Current : 8.3ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	100	А
Maximum Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	190	pF
Typical Thermal Resistance	$\begin{array}{c} {R_{\rm \theta JA}}^{(1)} \\ {R_{\rm \theta JC}}^{(2)} \\ {R_{\rm \theta JL}}^{(2)} \end{array}$	135 18 17	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





SMBF



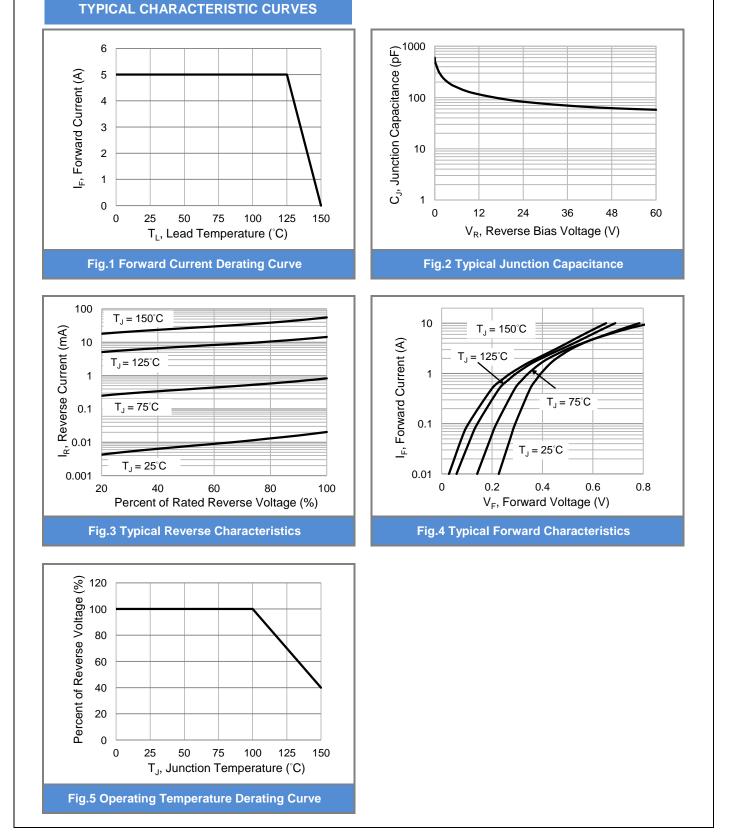


Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_{\rm F} = 1 \text{ A}, \text{ T}_{\rm J} = 25 ^{\circ}\text{C}$	-	0.39	-	V
		$I_F = 2 \text{ A}, \text{T}_J = 25 ^{\circ}\text{C}$	-	0.46	-	
		$I_F = 5 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.7	
		I _F = 1 A, T _J = 125 °C	-	0.3	-	
		I _F = 2 A, T _J = 125 °C	-	0.35	-	
		I _F = 5 A, T _J = 125 °C	-	0.57	-	
Reverse Current	Ι _R ⁽²⁾	$V_R = 48 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	13	-	uA
		$V_R = 60 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	100	uA
		$V_R = 60 \text{ V}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	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





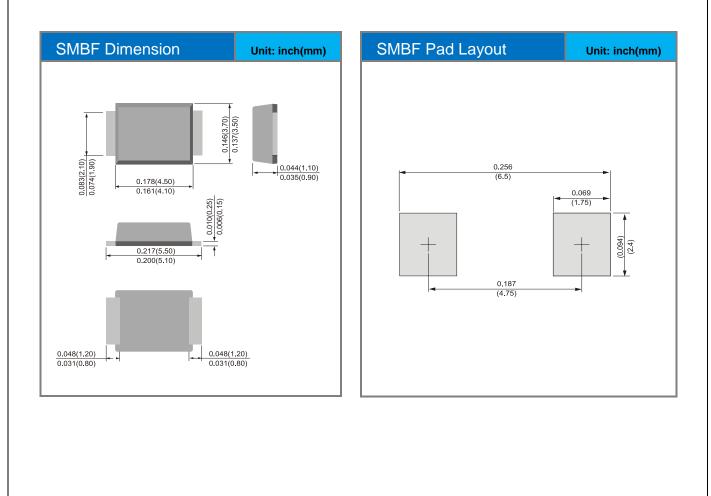




Part No Packing Code Version

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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