

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

Maximum Ratings and Thermal Characteristic	S ($T_A = 25^{\circ}C$ unless otherwise noted)
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PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	60	V
Maximum RMS Voltage	V _{RMS}	42	V	
Maximum DC Blocking Voltage	VDC	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
	(Note 1)	R _{0JA}	135	
Typical Thermal Resistance	(Note 2)	Rejc	18	°C/W
	(Note 2)	R _{θJL}	17	
Operating Junction Temperature Range		TJ	-55~150	٥C
Storage Temperature Range		T _{STG}	-55~150	°C



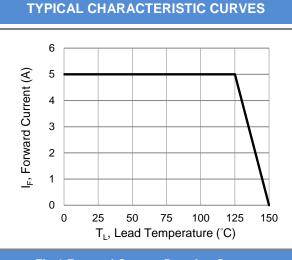
Electrical Characteristics (T_A = 25°C unless otherwise noted)

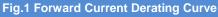
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	Vf	I _F = 1 A, T _J = 25 °C	-	0.39	-	V
		I _F = 2 A, T _J = 25 °C	-	0.46	-	
		I _F = 5 A, T _J = 25 °C	-	-	0.7	
		I⊧ = 1 A, TJ = 125 °C	-	0.3	-	
		I _F = 2 A, T _J = 125 °C	-	0.35	-	
		I _F = 5 A, T _J = 125 °C	-	0.57	-	
Reverse Current ^(Note 2)	I _R	V _R = 48 V, T _J = 25 °C	-	13	-	uA
		$V_R = 60 V, T_J = 25 ^{o}C$	-	-	100	uA
		V _R = 60 V, T _J = 125 °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.







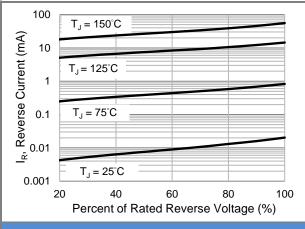
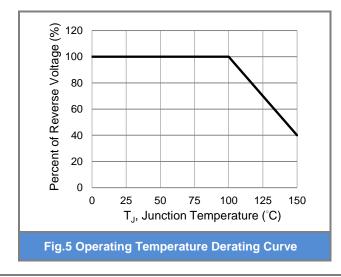


Fig.3 Typical Reverse Characteristics



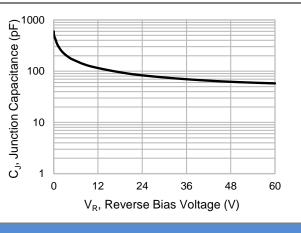


Fig.2 Typical Junction Capacitance

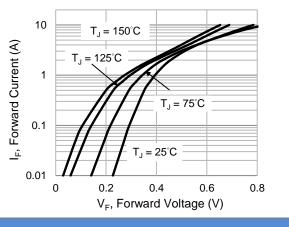


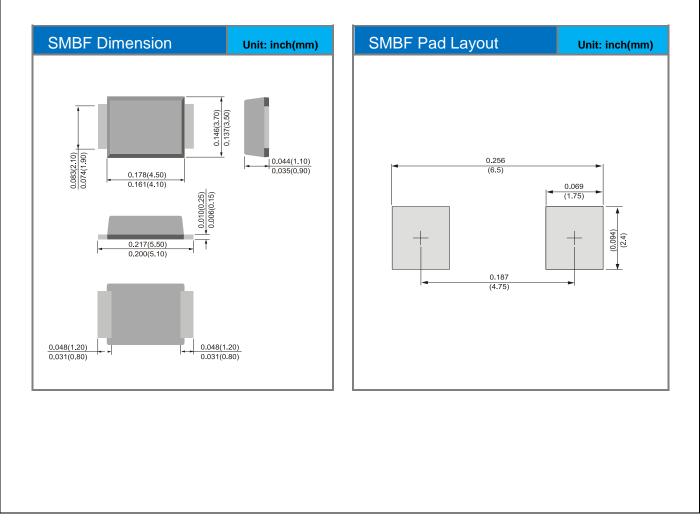
Fig.4 Typical Forward Characteristics



Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SR56F-AU	SMBF	5K pcs / 13" reel	SR56F

Packaging Information & Mounting Pad Layout





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