

Surface Mount Low VF Schottky Barrier Rectifier Voltage 100 V Current 10 A Features • Superfast recovery times-epitaxial construction • Low forward voltage, high current capability • Low leakage

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

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



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		Vrrm	100	V
Maximum RMS Voltage	V _{RMS}	70	V	
Maximum DC Blocking Voltage	VDC	100	V	
Maximum Average Forward Current	I _{F(AV)}	10	А	
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		I _{FSM}	130	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	490	pF
	(Note 1)	Reja	135	
Typical Thermal Resistance	(Note 2)	Rejc	17	°C/W
	(Note 2)	Rejl	19	
Operating Junction Temperature Range		TJ	-55~150	٥C
Storage Temperature Range		Тѕтс	-55~150	٥C



PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I⊧ = 3 A, TJ = 25 °C	-	0.5	-	V	
		I⊧ = 5 A, TJ = 25 °C	-	0.57	-	V	
		I _F = 10 A, T _J = 25 °C	-	-	0.77	V	
		I _F = 3 A, T _J = 125 °C	-	0.44	-	V	
		I _F = 5 A, T _J = 125 °C	-	0.52	-	V	
		I _F = 10 A, T _J = 125 °C	-	0.63	-	V	
Reverse Current ^(Note 3)	I _R	V _R = 80 V, T _J = 25 °C	-	2.8	-		
		$V_R = 100 \text{ V}, \text{T}_J = 25 ^{\circ}\text{C}$	-	-	50	uA	
		V _R = 100 V, T _J = 125 °C	-	4.8	-	mA	

NOTES :

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 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.



12 I_F, Forward Current (A) 10 8 6 4 2 0 50 0 25 75 100 125 150 T_C, Case Temperature (°C)

TYPICAL CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

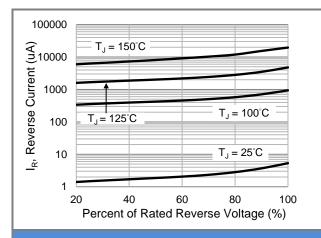
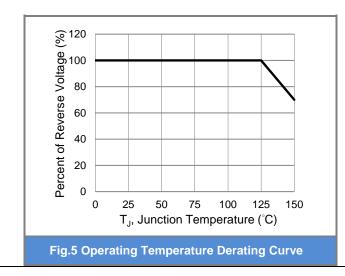


Fig.3 Typical Reverse Characteristics



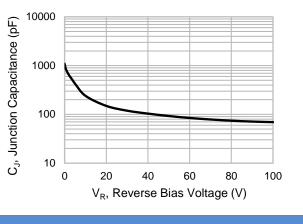


Fig.2 Typical Junction Capacitance

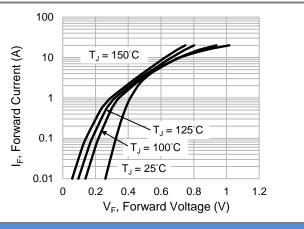


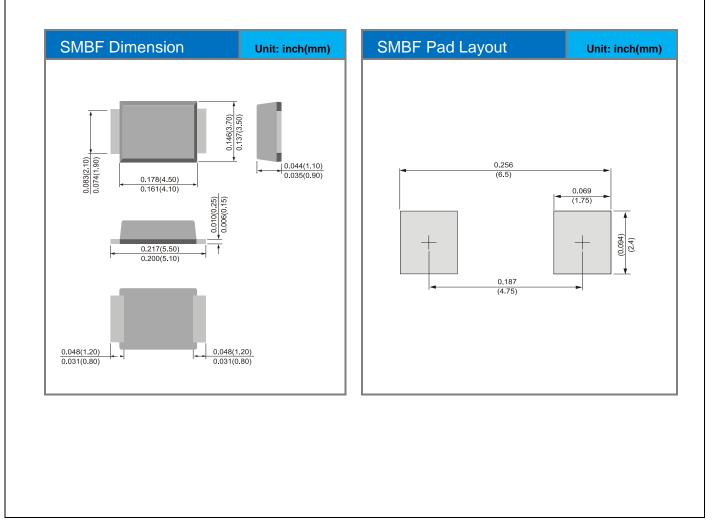
Fig.4 Typical Forward Characteristics



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR10100BF_R2_00701	SMBF	5K pcs / 13" reel	STR10100BF	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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