SURFACE ULTRAFAST RECOVERY RECTIFIERS

Forward Current-2A

Reverse Voltage-50V to 1000V

FEATURES

- For surface mount applications
- Glass passivated chip junction
- Low profile package
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: SMBF molded plastic body
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: Approximated 0.057 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derating by 20 %.

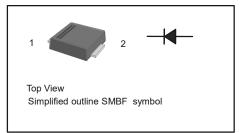
PARAMETER	SYMBOL	US2ABF -AT	US2BBF -AT	US2DBF -AT	US2GBF -AT	US2JBF -AT	US2KBF -AT	US2MBF -AT	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Tc=125℃	I _{F(AV)}	2						А	
Peak Forward Surge Current(Note1)	I _{FSM}	55					Α		
Maximum Forward Voltage at 2.0 A	VF	1.0 1.3 1.65				V			
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =25°C T _A =125°C	I _R	5 100						uA	
Maximum Reverse Recovery Time (Note2)	Trr	50 75				nS			
Typical Thermal Resistance (Note3)	R _{θJA} RθJC	60 20					°C/W		
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					°C		

Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

2. Measured at with IF=0.5A, Irr=0.25A.

3. P.C.B. mounted with 2.0" X 2.0" (5cm X 5 cm) copper pad areas.

PINNING	
PIN	DESCRIPTION
1	Cathode
2	Anode



US2ABF-AT THRU US2MBF-AT

RATINGS AND CHARACTERISTIC CURVES

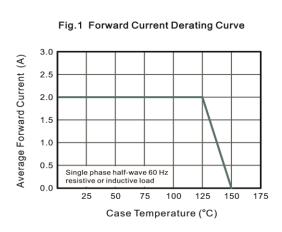


Fig.3 Typical Forward Characteristics

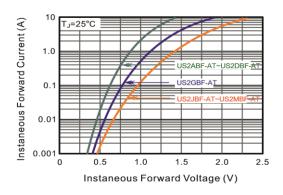
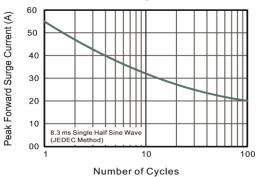
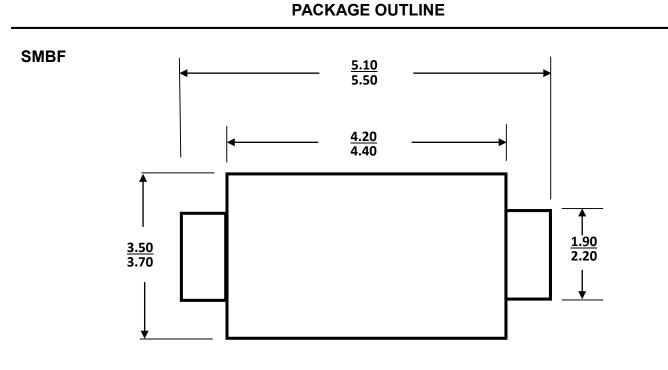


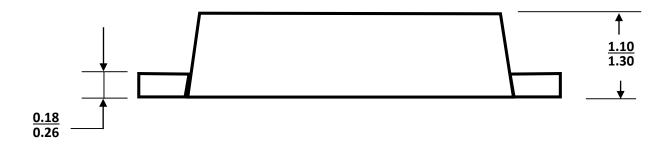
Fig.2 Typical Reverse Characteristics Instaneous Reverse Current (µA) 100 T_J=125°C 10 1.0 T_J=25°C 0.1 20 00 40 60 80 100 120 140 Percentage of Peak Reverse Voltage (%)

Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



US2ABF-AT THRU US2MBF-AT





Dimensions in milimeters

ORDERING INFORMATION

Device	Package	Shipping				
US2ABF-AT thru US2MBF-AT	SMBF	5,000/ Tape & Reel (13 inches)				