

# SS22BF-AT THRU SS220BF-AT

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Forward Current-2A

Reverse Voltage-20V to 200V

### FEATURES

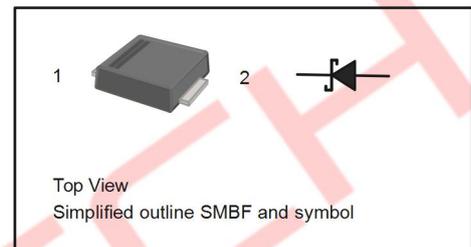
- ◆ For surface mount applications
- ◆ High forward surge current capability
- ◆ Low power loss,high efficiency
- ◆ Metal silicon junction,majority carriers conduction

### PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1   | Cathode     |
| 2   | Anode       |

### 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          | SS22BF-AT  | SS24BF-AT | SS26BF-AT | SS28BF-AT | SS210BF-AT | SS212BF-AT | SS215BF-AT | SS220BF-AT | UNIT               |
|------------------------------------------------------------------------------------------------------------------|-----------------|------------|-----------|-----------|-----------|------------|------------|------------|------------|--------------------|
| Maximum Repetitive Peak Reverse Voltage                                                                          | $V_{RRM}$       | 20         | 40        | 60        | 80        | 100        | 120        | 150        | 200        | V                  |
| Maximum RMS voltage                                                                                              | $V_{RMS}$       | 14         | 28        | 42        | 56        | 70         | 84         | 105        | 140        | V                  |
| Maximum DC Blocking Voltage                                                                                      | $V_{DC}$        | 20         | 40        | 60        | 80        | 100        | 120        | 150        | 200        | V                  |
| Maximum Average Forward Rectified Current                                                                        | $I_{F(AV)}$     | 2.0        |           |           |           |            |            |            |            | A                  |
| Peak Forward Surge Current(Note1)                                                                                | $I_{FSM}$       | 55         |           |           |           | 45         |            |            |            | A                  |
| Max Instantaneous Forward Voltage at 2 A                                                                         | $V_F$           | 0.55       |           | 0.70      |           | 0.85       |            | 0.95       |            | V                  |
| Maximum DC Reverse Current at Rated DC Blocking Voltage<br>$T_a = 25^\circ\text{C}$<br>$T_a = 100^\circ\text{C}$ | $I_R$           | 0.5<br>5   |           |           | 0.3<br>3  |            |            |            | mA         |                    |
| Typical Junction Capacitance(Note2)                                                                              | $C_J$           | 220        |           |           | 110       |            |            |            | pF         |                    |
| Typical Thermal Resistance(Note3)                                                                                | $R_{\theta JA}$ | 75         |           |           |           |            |            |            |            | $^\circ\text{C/W}$ |
| Operating Junction Temperature Range                                                                             | $T_J$           | -55 ~ +125 |           |           |           |            |            |            |            | $^\circ\text{C}$   |
| Storage Temperature Range                                                                                        | $T_{STG}$       | -55 ~ +150 |           |           |           |            |            |            |            | $^\circ\text{C}$   |

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

2. Measured at 1MHz and applied reverse voltage of 4 V D.C.

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

# SS22BF-AT THRU SS220BF-AT

## RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

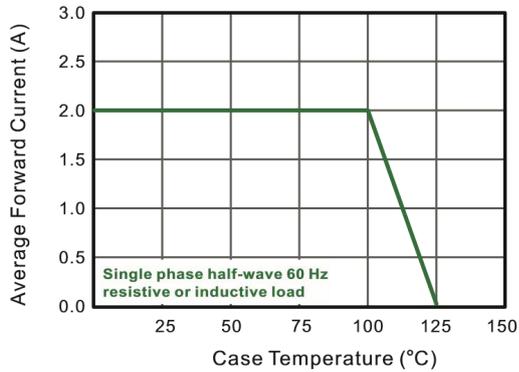


Fig.2 Typical Reverse Characteristics

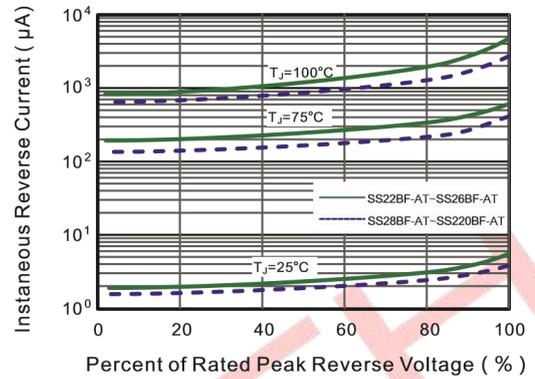


Fig.3 Typical Forward Characteristic

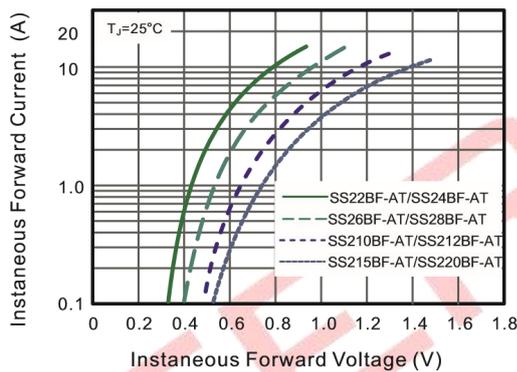


Fig.4 Typical Junction Capacitance

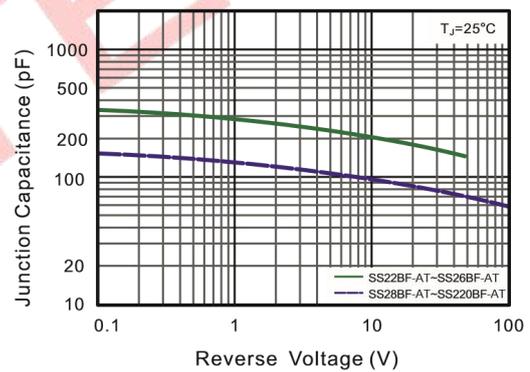


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

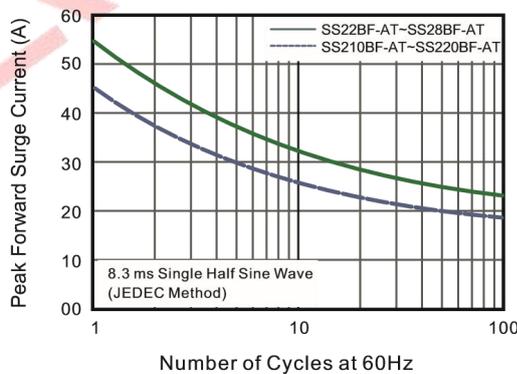
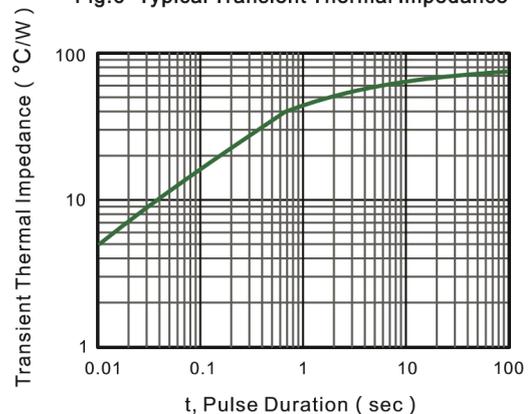


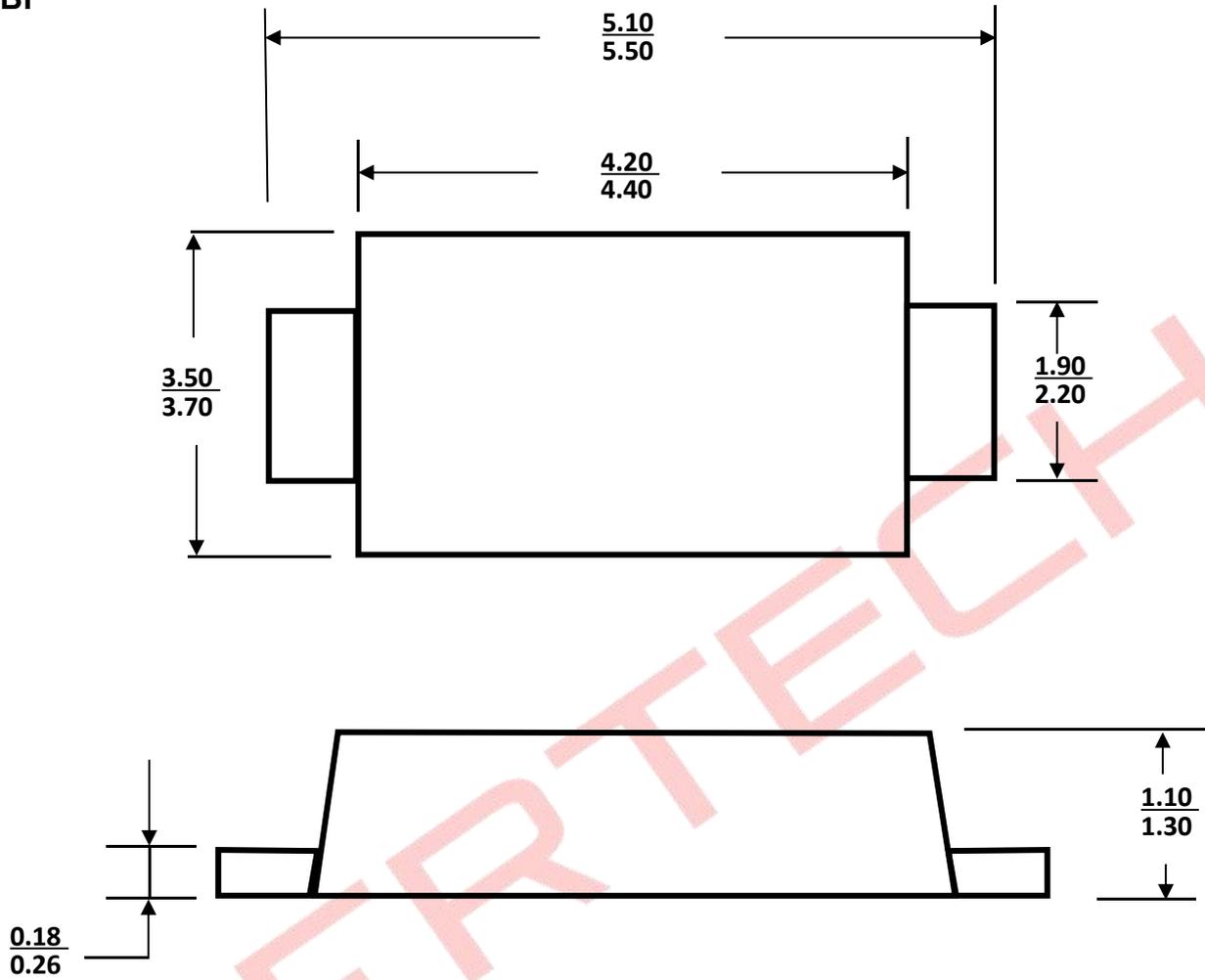
Fig.6 Typical Transient Thermal Impedance



# SS22BF-AT THRU SS220BF-AT

## PACKAGE OUTLINE

SMBF



Dimensions in millimeters

### ORDERING INFORMATION

| Device                    | Package | Shipping                      |
|---------------------------|---------|-------------------------------|
| SS22BF-AT thru SS220BF-AT | SMBF    | 5,000/Tape & Reel (13 inches) |

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Schottky Diodes & Rectifiers](#) category:*

*Click to view products by [Agertech](#) manufacturer:*

Other Similar products are found below :

[MA4E2039](#) [MA4E2508M-1112](#) [MBR0530L-TP](#) [MBR10100CT-BP](#) [MBR1545CT](#) [MMBD301M3T5G](#) [RB160M-50TR](#)  
[BAS16E6433HTMA1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#) [IDL02G65C5XUMA1](#) [NSR05F40QNXT5G](#) [NSVR05F40NXT5G](#)  
[NTE555](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SK310-T](#) [SK33A-TP](#) [SK34B-TP](#) [SS3003CH-TL-E](#) [PDS3100Q-7](#) [GA01SHT18](#)  
[CRS10I30A\(TE85L,QM](#) [MA4E2501L-1290](#) [MBRB30H30CT-1G](#) [JANTX1N5712-1](#) [SB007-03C-TB-E](#) [SK33B-TP](#) [SK35A-TP](#) [SK38B-LTP](#)  
[NTE505](#) [NTSB30U100CT-1G](#) [VS-6CWQ10FNHM3](#) [CRG04\(T5L,TEMQ\)](#) [ACDBA1100LR-HF](#) [ACDBA1200-HF](#) [ACDBA240-HF](#)  
[ACDBA3100-HF](#) [CDBQC0530L-HF](#) [ACDBA260LR-HF](#) [ACDBA1100-HF](#) [MA4E2502L-1246](#) [10BQ015-M3/5BT](#) [10BQ060-M3/5BT](#)  
[NRVB130LSFT1G](#) [CRS08TE85LQM](#) [PMAD1108-LF](#) [B120Q-13-F](#) [1N5819T-G](#) [B0530WSQ-7-F](#)