

# SS22B-AT thru SS220B-AT

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Forward Current: 2A

Reverse Voltage: 20V to 200V

### FEATURES

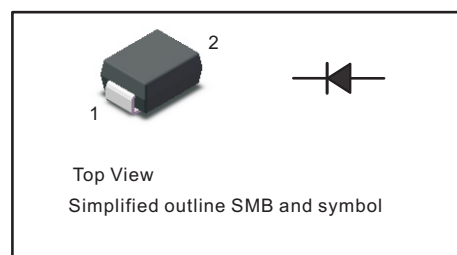
- ◆ For surface mount applications
- ◆ High forward surge current capability
- ◆ Low power loss, high efficiency
- ◆ Metal silicon junction, majority carriers conduction

### MECHANICAL DATA

- ◆ Case: SMB molded plastic body
- ◆ Terminals: Solderable per MIL-STD-750 , Method 2026
- ◆ Weight: Approximated 0.055 grams

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### 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	SS22B-AT	SS24B-AT	SS26B-AT	SS28B-AT	SS210B-AT	SS212B-AT	SS215B-AT	SS220B-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 <sup>(Note1)</sup>	$I_{FSM}$	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 $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	$I_R$	0.5 5			0.3 3				mA	
Typical Junction Capacitance <sup>(Note2)</sup>	$C_J$	220			110				pF	
Typical Thermal Resistance <sup>(Note3)</sup>	$R_{\theta JA}$	75								°C/W
Operating Junction Temperature Range	$T_J$	-55 ~ +125								°C
Storage Temperature Range	$T_{STG}$	-55 ~ +150								°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.

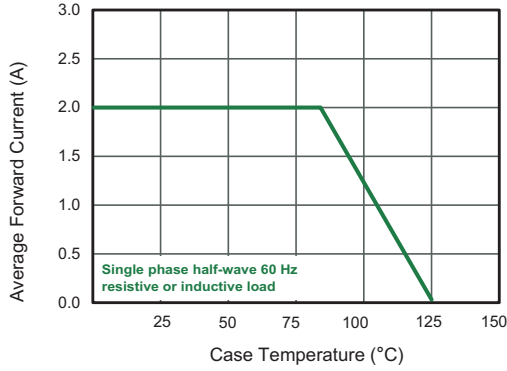
Dated:07/2017

Rev: 1.0

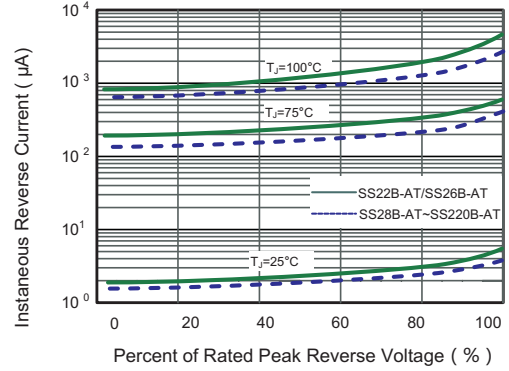
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## RATINGS AND CHARACTERISTIC CURVES

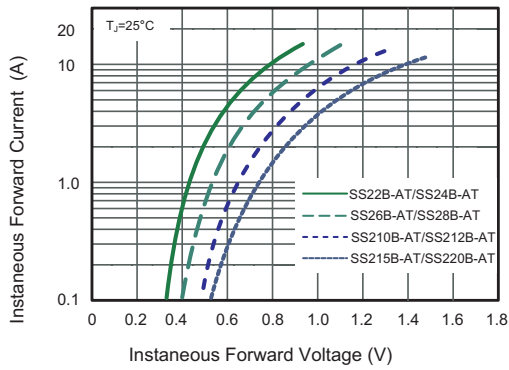
**Fig.1 Forward Current Derating Curve**



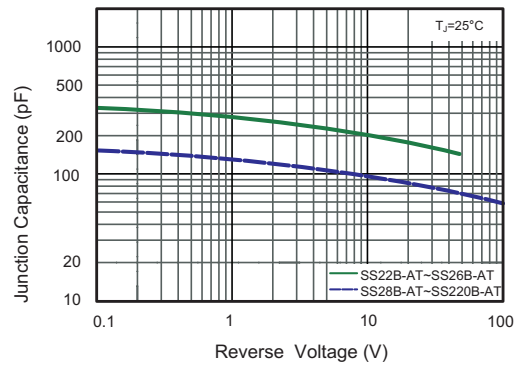
**Fig.2 Typical Reverse Characteristics**



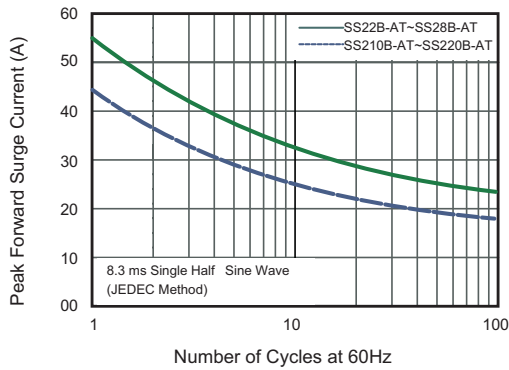
**Fig.3 Typical Forward Characteristic**



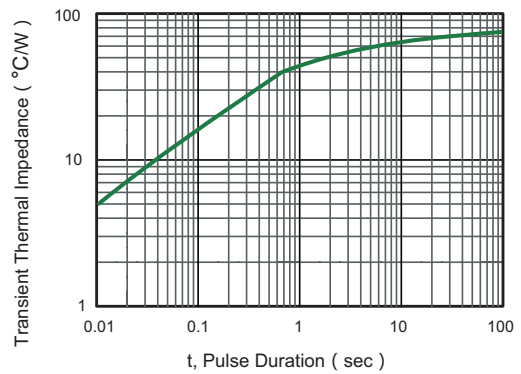
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



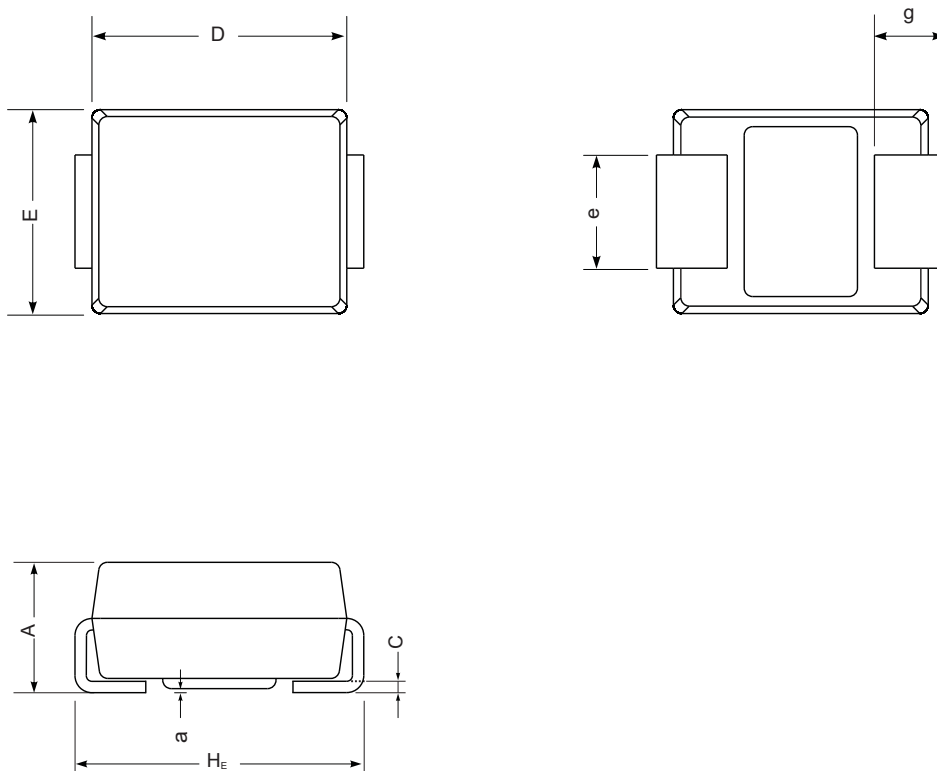
**Fig.6- Typical Transient Thermal Impedance**



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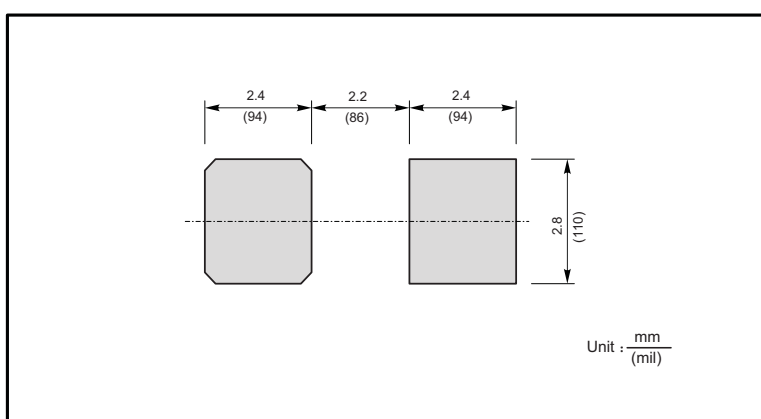
## PACKAGE OUTLINE

### SMB



UNIT		A	D	E	H <sub>E</sub>	C	e	g	a
mm	max	2.44	4.70	3.94	5.59	0.305	2.2	1.5	0.2
	min	2.13	4.06	3.3	5.08	0.152	1.9	0.8	0.05

### The recommended mounting pad size



### ORDER INFORMATION

Device	Package	Shipping
SS22B-AT thru SS220B-AT	SMB	3000PCS/Reel&Tape(13inch)