

SS22B-AT thru SS220B-AT

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Forward Current: 2A

Reverse Voltage: 20V to 200V

FEATURES

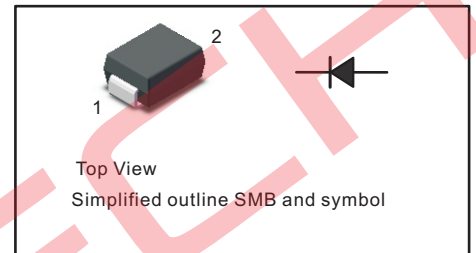
- ◆ For surface mount applications
- ◆ High forward surge current capability
- ◆ Low power loss, high efficiency
- ◆ Metal silicon junction, majority carriers conduction

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

MECHANICAL DATA

- ◆ Case: SMB molded plastic body
- ◆ Terminals: Solderable per MIL-STD-750 , Method 2026
- ◆ Weight: Approximated 0.055 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	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 ^(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 $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	I_R	0.5 5			0.3 3				mA	
Typical Junction Capacitance ^(Note2)	C_J	220			110				pF	
Typical Thermal Resistance ^(Note3)	$R_{\theta JA}$	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.

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

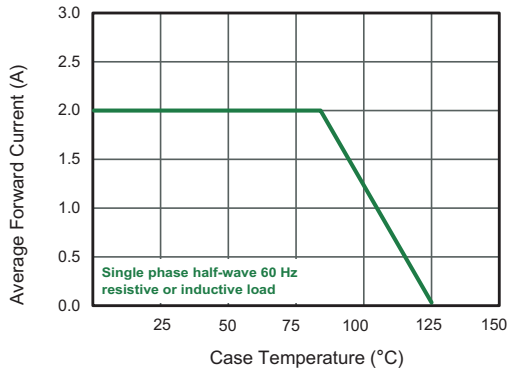


Fig.2 Typical Reverse Characteristics

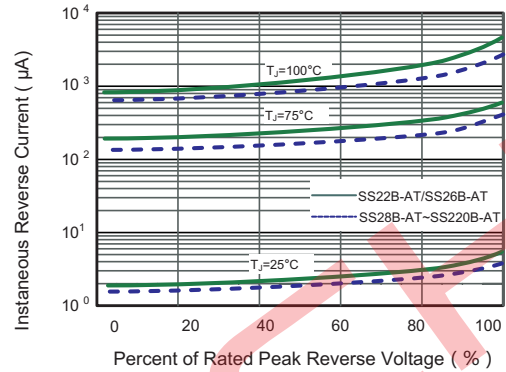


Fig.3 Typical Forward Characteristic

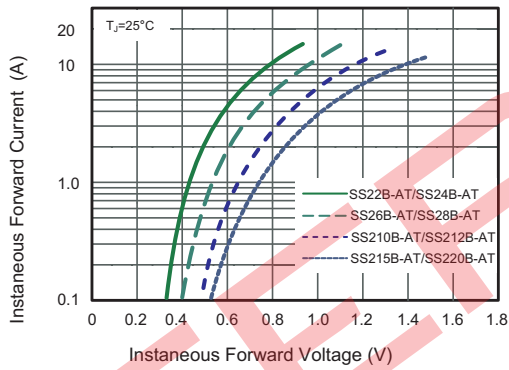


Fig.4 Typical Junction Capacitance

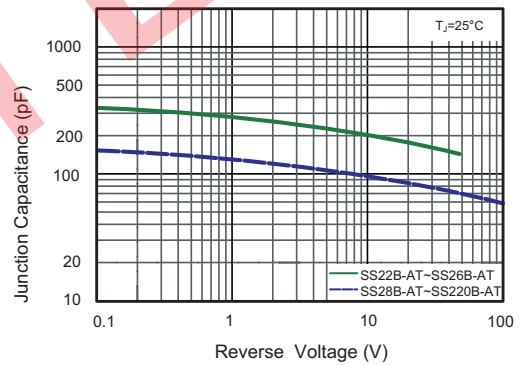


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

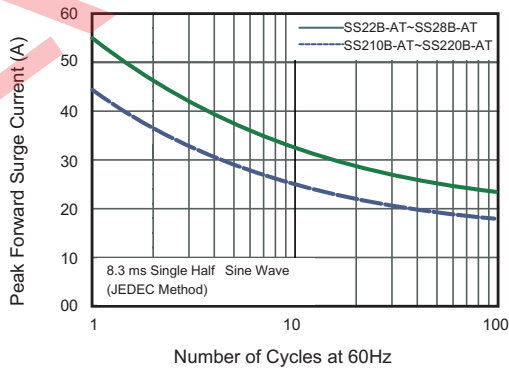
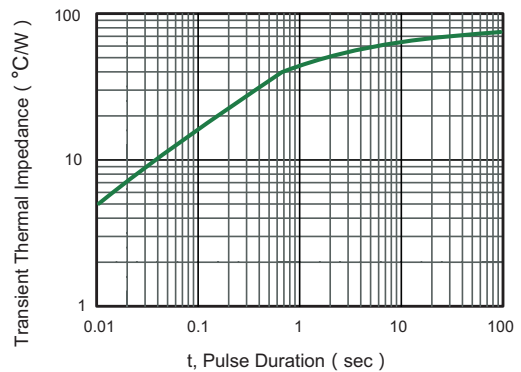


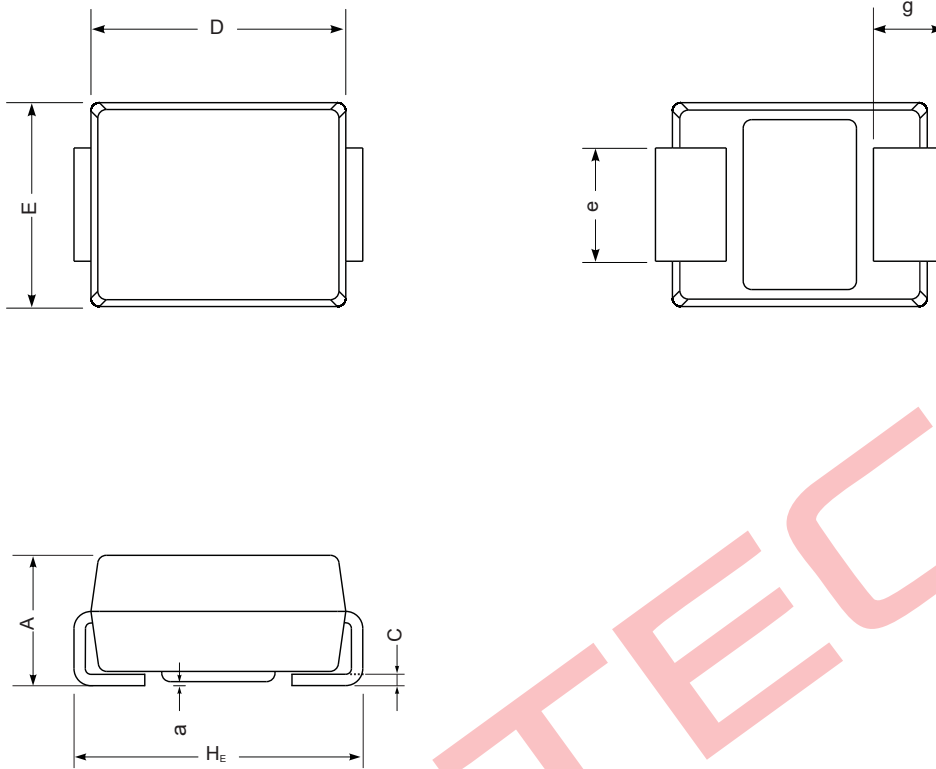
Fig.6- Typical Transient Thermal Impedance



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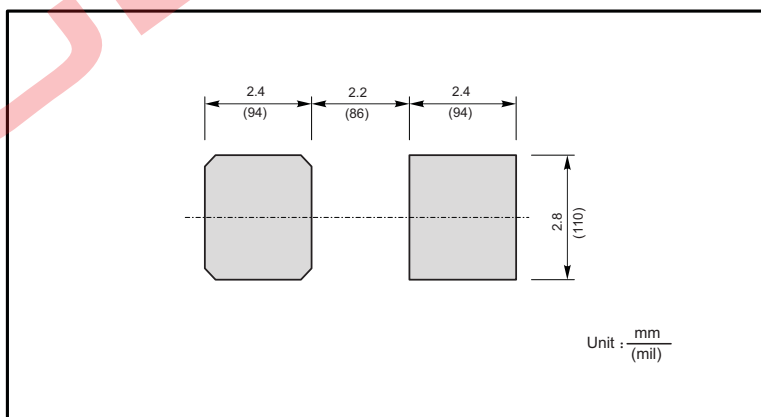
PACKAGE OUTLINE

SMB



UNIT		A	D	E	H _E	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)