

SS52C-AT THRU SS520C-AT

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 20 to 200V

Forward Current - 5.0A

FEATURES

- ◆ Metal silicon junction, majority carrier conduction
- ◆ For surface mounted applications
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MECHANICAL DATA

- ◆ Case: SMC
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 0.22g / 0.0077oz

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SS52C-AT	SS54C-AT	SS56C-AT	SS58C-AT	SS510C-AT	SS512C-AT	SS515C-AT	SS520C-AT	Units
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)}					5.0				A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}			175			150			A
Max Instantaneous Forward Voltage at 5A	V _F		0.55		0.70			0.85		V
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a = 100°C	I _R				1.0	50				mA
Typical Junction Capacitance ⁽¹⁾	C _j	600			400					pF
Typical Thermal Resistance ⁽²⁾	R _{θJA}			35						°C/W
Operating Junction Temperature Range	T _j			-55 ~ +125						°C
Storage Temperature Range	T _{stg}			-55 ~ +150						°C

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

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



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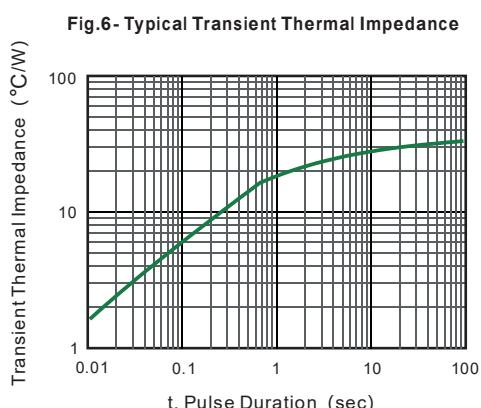
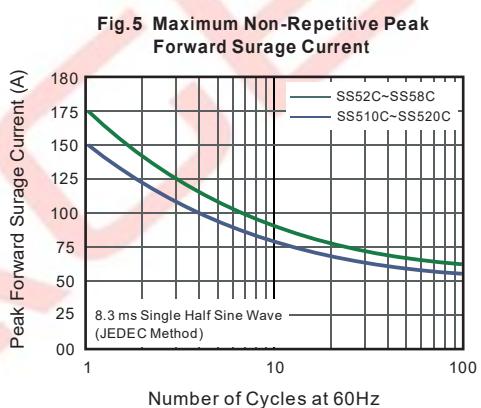
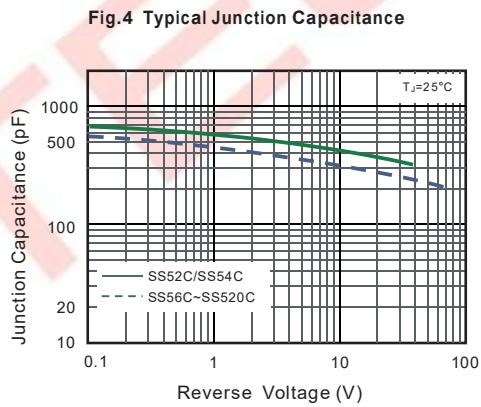
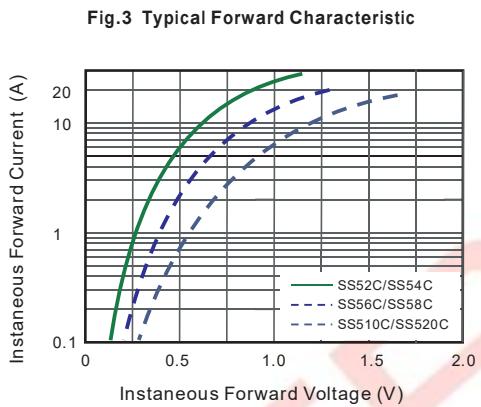
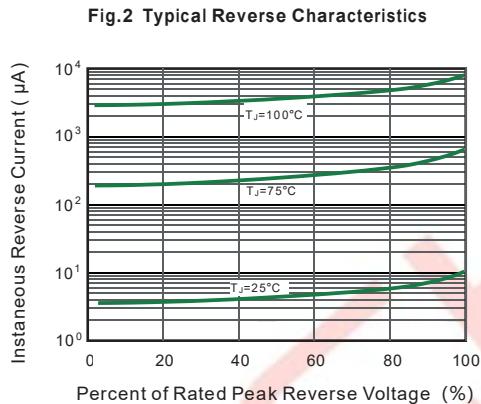
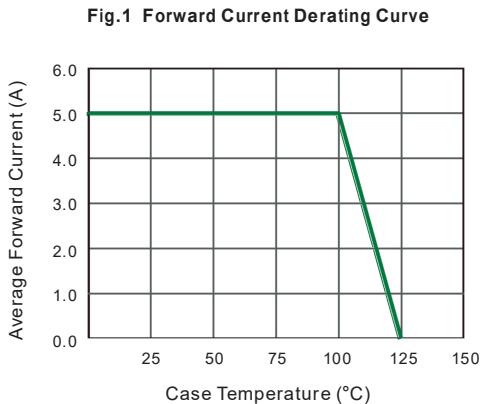
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Dated:06/2018

Rev: 1.1

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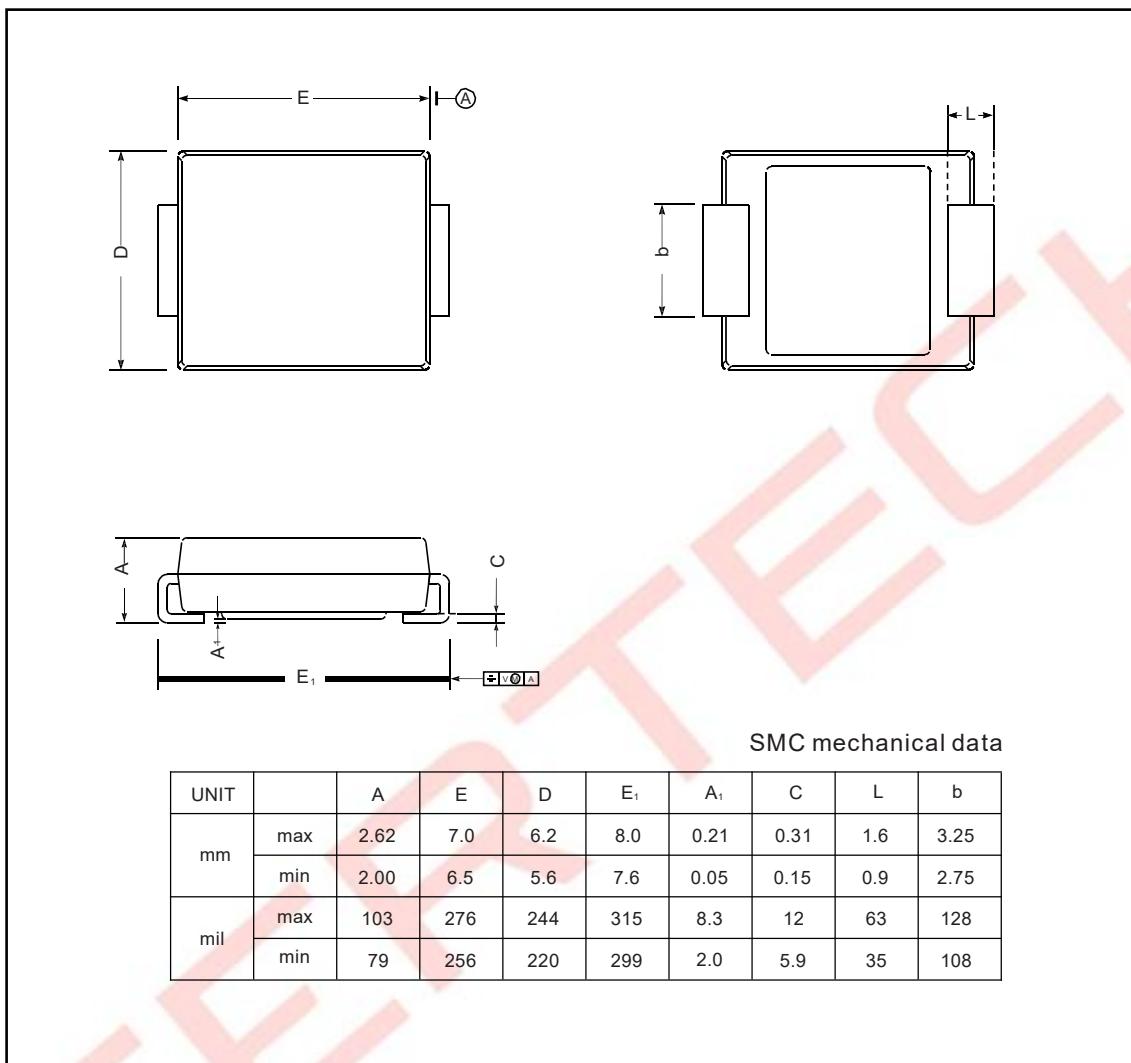
Typical Characteristics Curves



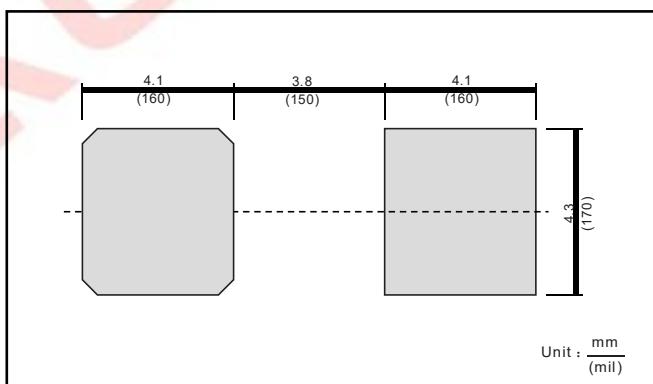
SS52C-AT THRU SS520C-AT

Package Outline

SMC



The recommended mounting pad size



Marking

Type number	Marking code
SS52C-AT	SS52
SS54C-AT	SS54
SS56C-AT	SS56
SS58C-AT	SS58
SS510C-AT	SS510
SS512C-AT	SS512
SS515C-AT	SS515
SS520C-AT	SS520