



SS52 THRU SS525

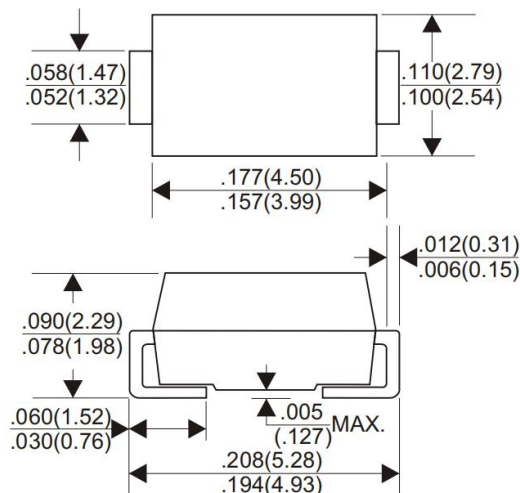
5.0 AMP Surface Mount Schottky Barrier Rectifier

FEATURES

- * Schottky Brrier Chip
- * Low Power Loss,High Efficiency
- * Ideally Suited for Automatic Assembly
- * Surge Overload Rating to 80A Peak

MECHANICAL DATA

- * Case: Molded plastic SMA
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any
- * Making: Type Number



Dimensions in inches and (millimeters)

MAXIMUM RATINGS(Ta=25℃ Unless otherwise specified)

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%.

Type Number	SYMBOL	SS 52	SS 53	SS 54	SS 545	SS 55	SS 56	SS 58	SS 510	SS 515	SS 520	SS 525	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	VRMS	14	21	28	31	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current @TL=100 °C	IF (AV)	5.0											A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100											A
Rating for fusing (t<8.3ms)	I ² t	41.50											A ² s
Forward Voltage @IF=5.0A	VFM	0.55				0.7		0.85		0.92		0.95	V
Peak Reverse Current @TA =25 °C	IR	0.1						0.05					mA
At Rated DC Blocking Voltage @TA =100 °C		10						5					
Typical Junction Capacitance (Note 1)	CJ	170						100					pF
Typical Thermal Resistance	RθJA	45											°C/W
Operating Temperature Range	TJ	-55 to+150											°C
Storage Temperature Range	TSTG	-55 to +150											°C

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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■ TYPICAL CHARACTERISTICS

Fig. 1 Forward Current Derating Curve

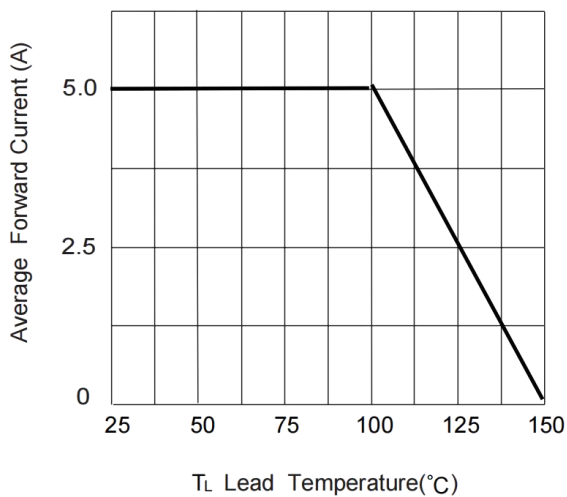


Fig. 2 Typ. Forward Characteristics

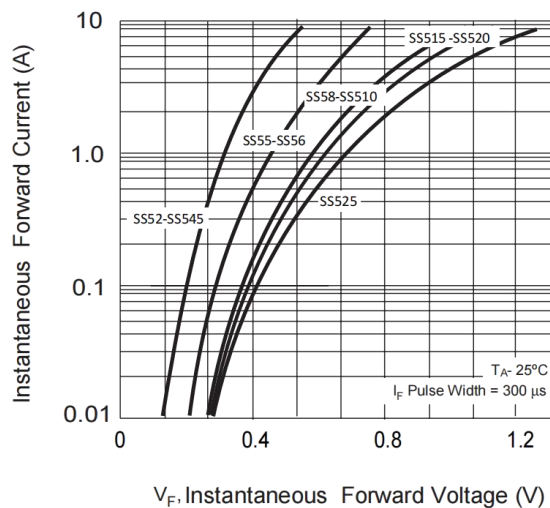


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

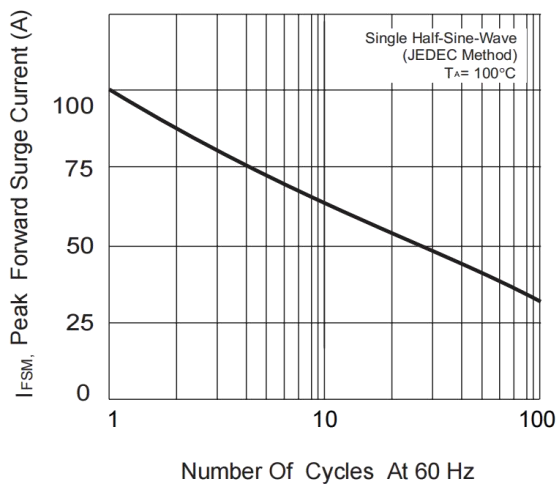


Fig. 4 Typical Junction Capacitance

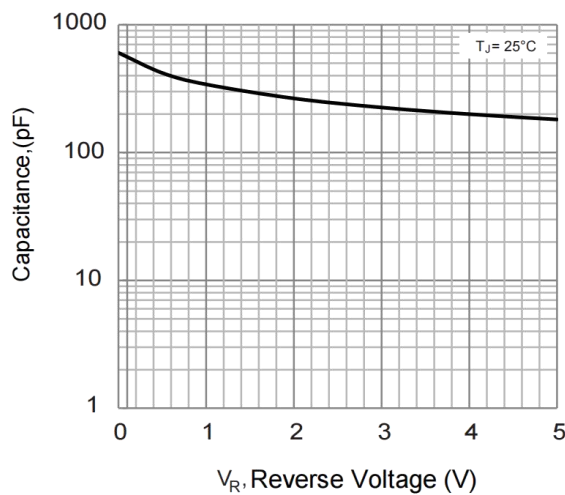


Fig. 5 Mounting PAD Layout

