



SS32 THRU SS320

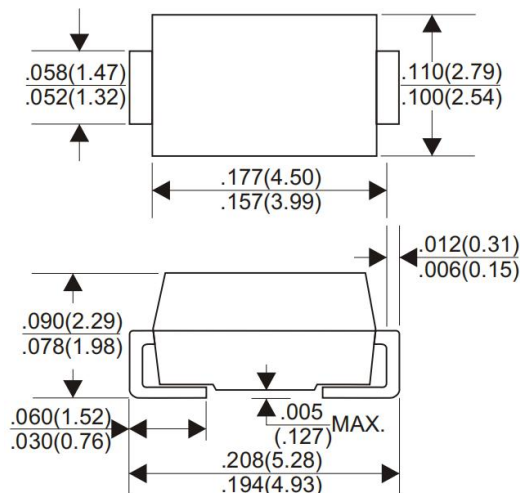
3.0 AMP Surface Mount Schottky Barrier Rectifier

■ 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	SS32	SS33	SS34	SS345	SS35	SS36	SS38	SS310	SS315	SS320	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	VRMS	14	21	28	31	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150	200	V
Average Rectified Output Current @TL=100 ℃	IF (AV)	3.0										A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80										A
Rating for fusing (t<8.3ms)	I ² t	26.56										A ² s
Forward Voltage @IF=3.0A(Note1)	VFM	0.55				0.7		0.85		0.92		V
Peak Reverse Current @TA=25 ℃	IR	0.1						0.05				mA
At Rated DC Blocking Voltage @TA=100 ℃		10						5				
Typical Junction Capacitance (Note 1)	CJ	110						70				pF
Typical Thermal Resistance	Rθ JA	55										℃/W
Operating Temperature Range	TJ	-55 to+150										℃
Storage Temperature Range	TSTG	-55 to +150										℃

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

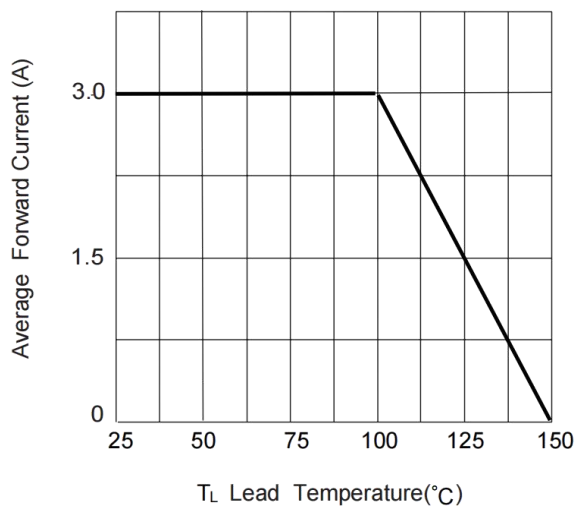


Fig. 2 Typ. Forward Characteristics

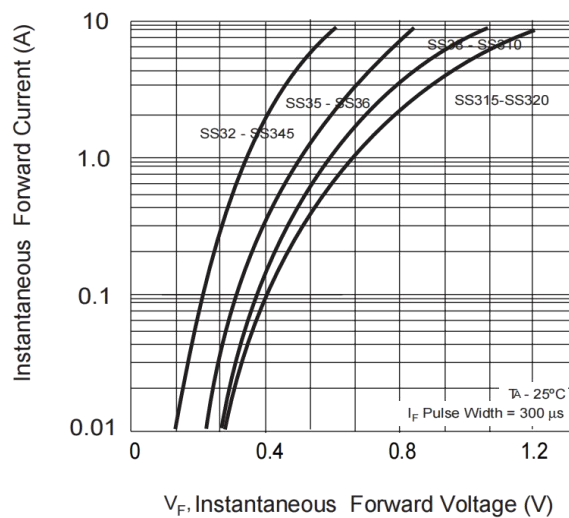


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

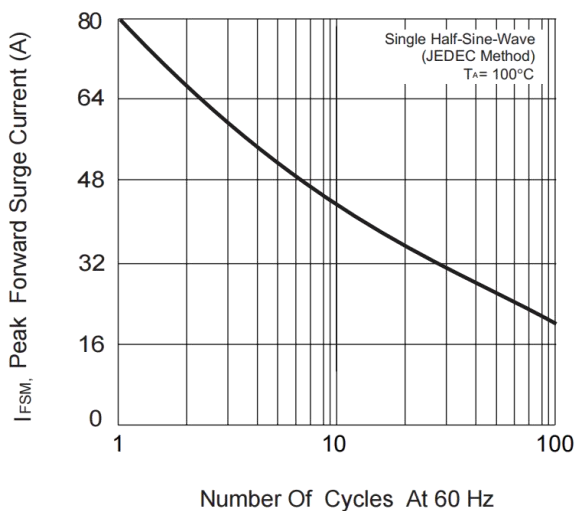


Fig.4 Typical Reverse Characteristics (per element)

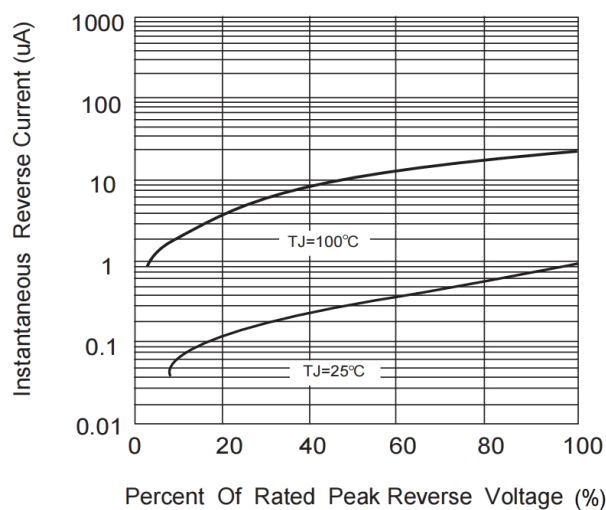


Fig.5 Mounting PAD Layout

