



SS32 THRU SS320

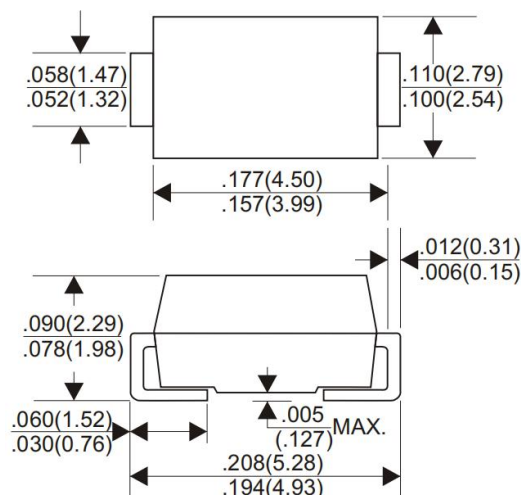
Reverse Voltage - 20 to 100 Volts Forward Current - 3.0 Amperes

FEATURES

- * For surface mounted applications
- * Metal silicon junction, majority carrier conduction
- * Low power loss, high efficiency
- * Built-in strain relief, ideal for automated placement
- * High forward surge current capability
- * High temperature soldering guaranteed:
260 C/10 seconds at terminals

MECHANICAL DATA

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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS(Ta=25°C Unless otherwise specified)

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load derate current by 20%.

		SYMBOLS	SS 32L	SS 33L	SS 34L	SS 35L	SS 36L	SS 38L	SS 310L	UNITS
Maximum repetitive peak reverse voltage		VRRM	20	30	40	50	60	80	100	V
Maximum RMS voltage		VRMS	14	21	28	35	42	56	70	V
Maximum DC blocking voltage		VDC	20	30	40	50	60	80	100	V
Maximum average forward rectified current at TL(see fig.1)		I(AV)	3.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		IFSM	70.0							A
Maximum instantaneous forward voltage at 3.0A		VF	0.45			0.5		0.7		V
Maximum DC reverse current at rated DC blocking voltage	TA=25℃	IR	0.5					0.2		mA
	TA=100℃		20					10		
Typical junction capacitance (NOTE 1)		CJ	500			300				pF
Typical thermal resistance (NOTE 2)		RθJA	75.0							℃/W
Operating junction temperature range		TJ,	-55 to +125					-55 to +150		℃
Storage temperature range		TSTG	-55 to +150							℃

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



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■ TYPICAL CHARACTERISTICS

