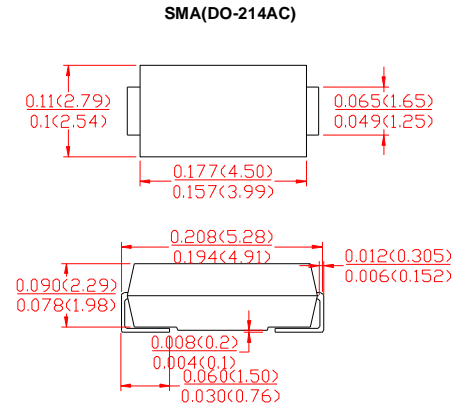


**FEATURES**

- | Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- | Metal silicon junction, majority carrier conduction
- | For surface mount applications
- | Guard ring for over voltage protection
- | Low power loss, high efficiency
- | High current capability, Low forward voltage drop
- | High surge capability
- | For use in low voltage, high frequency inverters, Free wheeling, and polarity protection applications
- | High temperature soldering guaranteed:  
250°C/10 seconds at terminals

**MECHANICAL DATA**

- | Case: JEDED SMA (DO-214AC) molded plastic body
- | Terminals: Solder Plated, solderable per MIL-STD-750 Method 2026
- | Polarity: Color band denotes cathode end
- | Weight: 0.002ounce, 0.064 gram



Dimensions in inches and (millimeters)

**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%.

	SYMBOLS	SS12	SS13	SS14	SS15	SS16	SS18	SS19	SS110	UNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length (see Fig.1)	$I_{AV}$	1.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30.0								Amps
Maximum Instantaneous Forward Voltage of 1.0A (Note 1)	$V_F$	0.55		0.75		0.85			Volts	
Maximum instantaneous Reverse Current at rated DC blocking voltage (Note 1)	$T_A=25^\circ\text{C}$	0.5								mA
	$T_A=125^\circ\text{C}$	10								
Typical thermal capacitance (Note 2)	$R_{QJL}$ $R_{QA}$	28.0				88.0				°C/W
Operating and Storage Temperature Range	$T_J$	-65 to +125				-65 to +150				°C
Storage temperature range	$T_{STG}$	-65 to +150								

**NOTES:**

- 1.Pulse test: 300µs pulse width, 1% duty cycle.
- 2.P.C.B. Mounted with 0.2\*0.2"(5.0\*5.0mm) copper pads.

# RATING AND CHARACTERISTIC CURVES SS12 thru SS110

FIG.1-FORWARD CURRENT DERATING CURVE

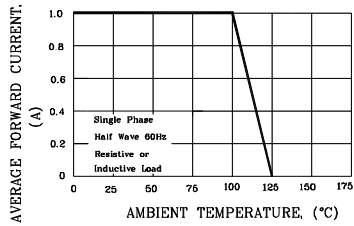


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

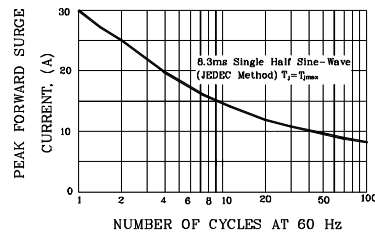


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

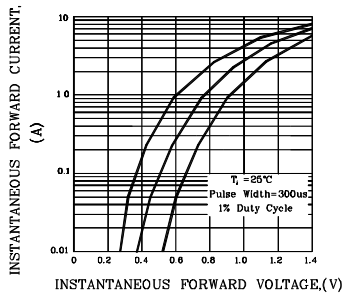


FIG.4-TYPICAL JUNCTION CAPACITANCE

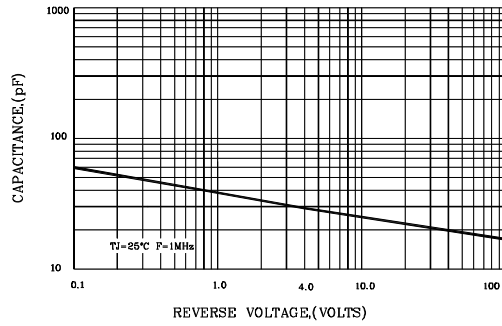
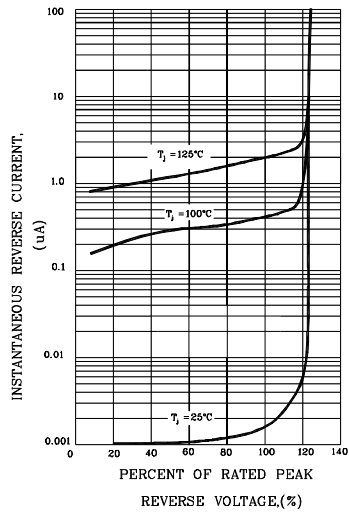


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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