

SS12THRUSS110

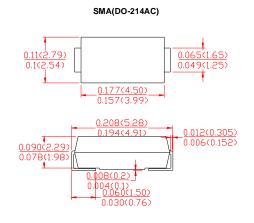
VOLTAGE RANGE20 to 100 VoltsForward Current1.0 Amperes

FEATURES

- I Plastic package has Unerwrites Laboratory Flammability Classification 94V-0
- I Metal silicon junction, majority carrier conduction
- For surface mount applications
- I Guard ring for over voltage protection
- Low power loss, high efficiency
- High current capability, Low forward voltage drop
- I High surge capability
- 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
- I 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-v superimposed on rated load (JEDEC Method)	vave I _{FSM}	30.0						Amps		
Maximum Instantaneous Forward Voltage of 1.0A (Note 1)	V _F	0.55 0.75 0.85						Volts		
$\begin{array}{c} \text{Maximum instantaneous Reverse Current} \\ \text{at rated DC blocking voltage (Note 1)} \\ \end{array} \begin{array}{c} T_A = 25 ^{\circ}\text{C} \\ T_A = 125 ^{\circ}\text{C} \end{array}$	I _R	0.5 10							mA	
Typical thermal capacitance (Note 2)	R _{QJL} R _{QJA}	28.0 88.0							°C/W	
Operating and Storage Temperature Range	Тյ	-65 to +125 -65 to +150					°C			
Storage temperature range	T _{STG}	-65 to +150								

NOTES:

1.Pulse test: 300 μs pulse width, 1% duty cycle.

2.P.C.B. Mounted with 0.2*0.2"(5.0*5.0mm) copper pads.



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RATING AND CHRACTERISTIC CURVES SS12 thru SS110

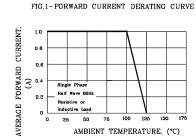
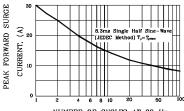
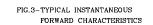
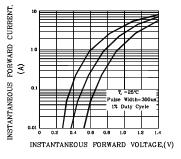


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz







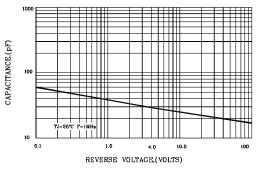


FIG.5-TYPICAL REVERSE CHARACTERISTICS

