

SS12 THRU SS110

VOLTAGE RANGE

20 to 100 Volts

CURRENT

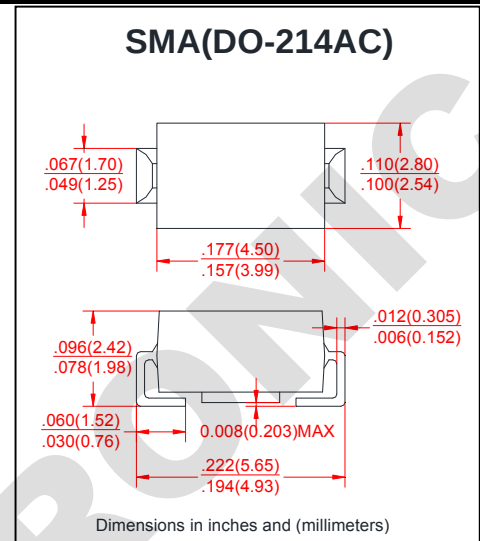
1.0 Ampere

FEATURES

- Low forward voltage drop
- Low leakage current
- High forward surge capability

MECHANICAL DATA

- Case: SMA mold plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Indicated by cathode band
- Lead: Solder plated, solderable per MIL-STD-750 method 2026
- Mounting position: Any



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 current by 20%

		SYMBOLS	SS12	SS13	SS14	SS15	SS16	SS18	SS110	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current		I _(AV)	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A		V _F	0.55			0.70		0.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25℃	I _R	0.5							mA
	T _A = 100℃		20							
Typical Thermal Resistance (NOTE 1)		R _{θJA}	88							℃/W
Operating Temperature Range		T _J ,	-55 to +125							℃
Storage Temperature Range		T _{STG}	-55 to +150							℃

Notes:

1. Thermal Resistance from Junction to Ambient at 5.0×5.0mm² copper pad areas.

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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

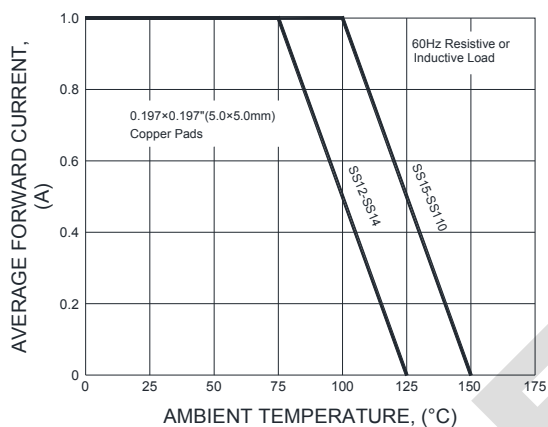


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

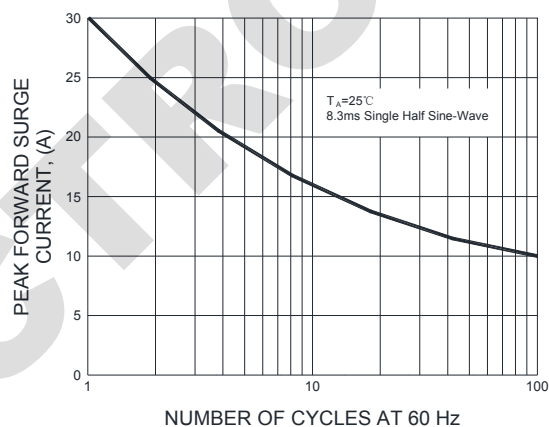


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

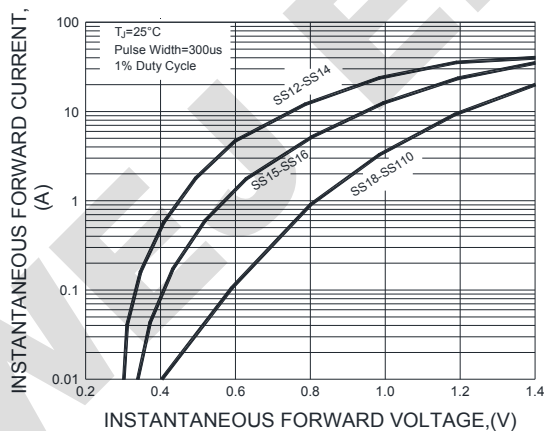


FIG.4-TYPICAL REVERSE CHARACTERISTICS

