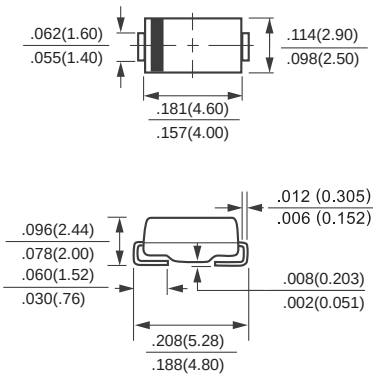
VOLTAGE RANGE - 20 to 80 Volts CURRENT - 1.0 Ampere

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Terminals: Solder plated solderable per MIL-STD-750, Method 2026
* Polarity: As marked
* Mounting position: Any
* Weight: 0.064 gram

FEATURES

* Ideal for surface mounted applications
* Low leakage current
* Glass passivated junction



SMA (DO-214AC)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	SMA5817 SS12	SMA5818 SS13	SMA5819 SS14	SR150 SS15	SR160 SS16	SR170 SS18	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	Volts
Maximum RMS Bridge Input Voltage	V_{RMS}	14	21	28	35	42	56	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	I_O	1.0						Amps
Peak Forward Surge Current: 8.3 ms single half sine-wave Superimposed on rated load (JEDEC Method)	I_{FSM}	30						Amps
Maximum Instantaneous Voltage at 1.0A DC	V_F	0.55		0.70		0.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage @T_A = 25℃	I_R	1.0						mAmps
Maximum DC Reverse Current at Rated DC Blocking Voltage @T_A = 100℃	I_R	20						mAmps
Typical Junction Capacitance (Note 1)	C_J	110						pF
Typical Thermal Resistance (Note 2)	$R\theta_{JA}$	88						℃/W
Operating and Storage Temperature Range	T_J,T_{STG}	-65 to +125 , -65 to +150						℃

Notes: 1.Measured at 1 MHz and applied reverse voltage of 4.0volts.
2. Thermal Resistance from Junction to Ambient, .0.2X0.2*(5.0X5.0mm^2) copper pad area.

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FIG. 1 TYPICAL FORWARD CURRENT DERATING CURVE

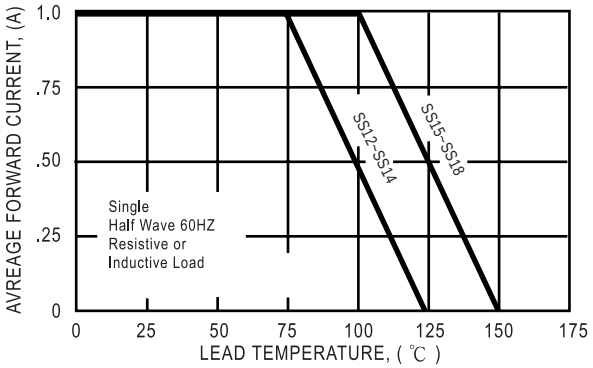


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS

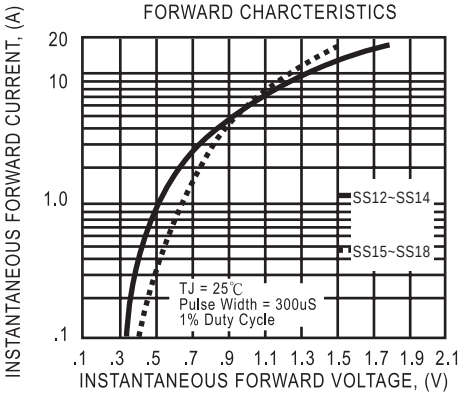


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

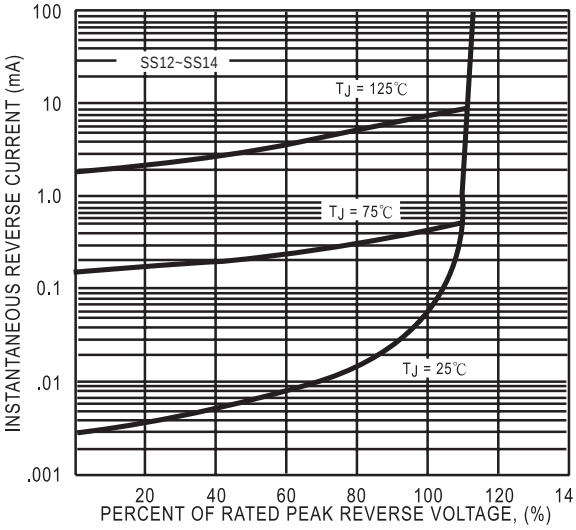


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

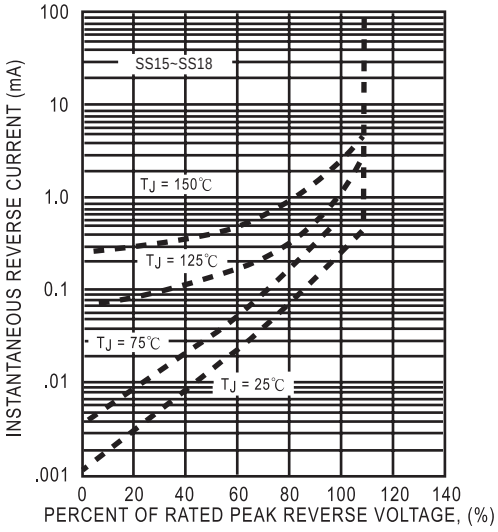


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

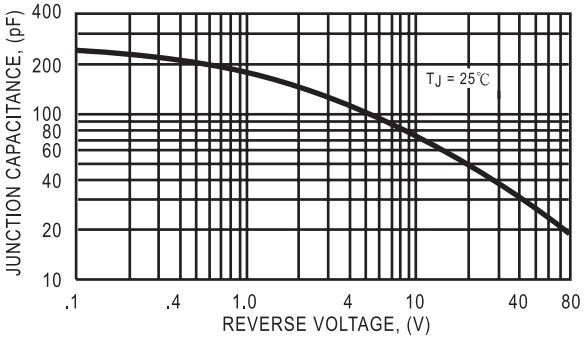
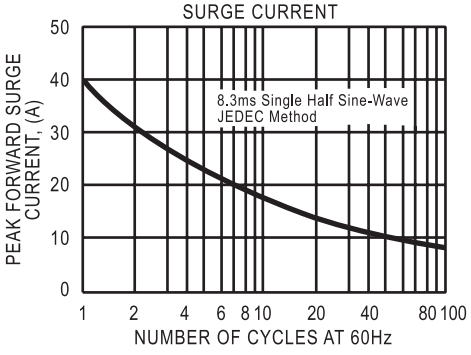


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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