



Features

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place



Mechanical Data

- Case: SMC
- Terminals: Solderable per MIL-STD-750, Method 2026

SMC (DO-214AB)



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
S10AC-13~S10MC-13	SMC(DO-214AB)	S10XX	3000

XX: From AC~MC

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	S10AC	S10BC	S10DC	S10GC	S10JC	S10KC	S10MC	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	10							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	200							A
Maximum Instantaneous Forward Voltage at 10A	V_F	1.0							V
Maximum DC Reverse Current $T_a = 25\text{ }^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125\text{ }^{\circ}\text{C}$	I_R	5 100							μA
Typical Junction Capacitance ⁽¹⁾	C_j	100							pF
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	10							$^{\circ}\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150							$^{\circ}\text{C}$

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



Typical Characteristics

Fig.1 Forward Current Derating Curve

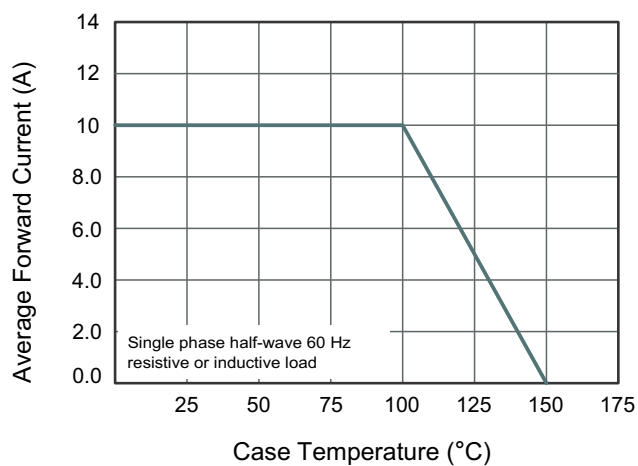


Fig.2 Typical Reverse Characteristics

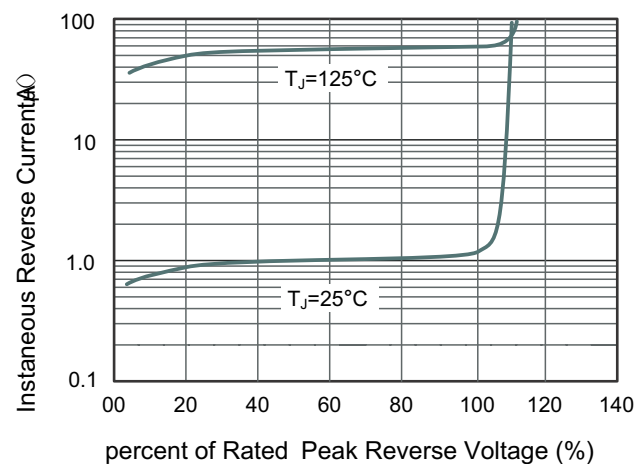


Fig.3 Typical Forward Characteristic

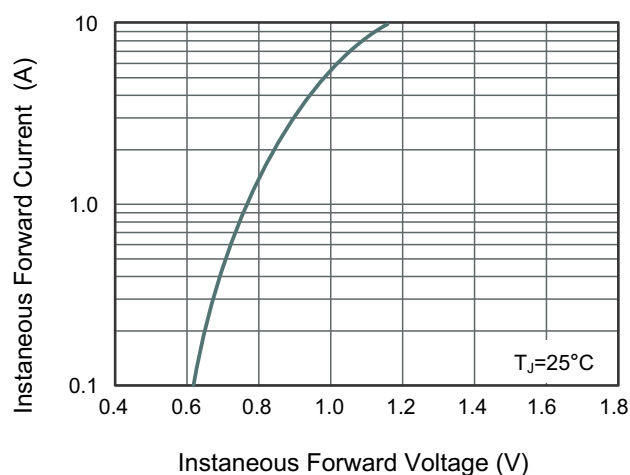


Fig.4 Typical Junction Capacitance

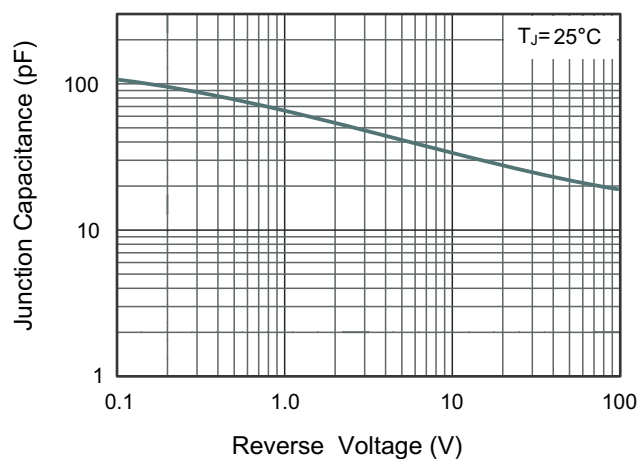
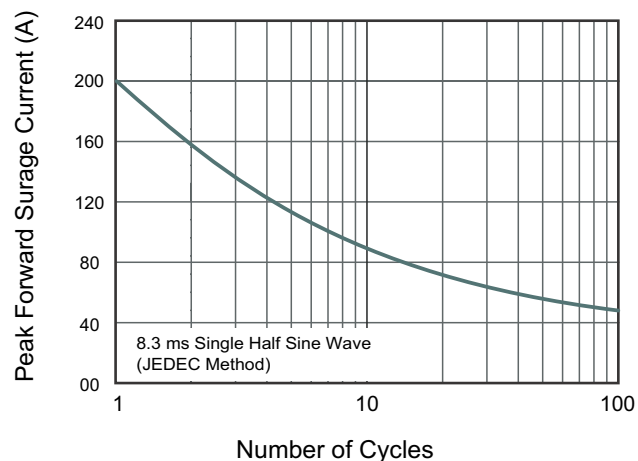
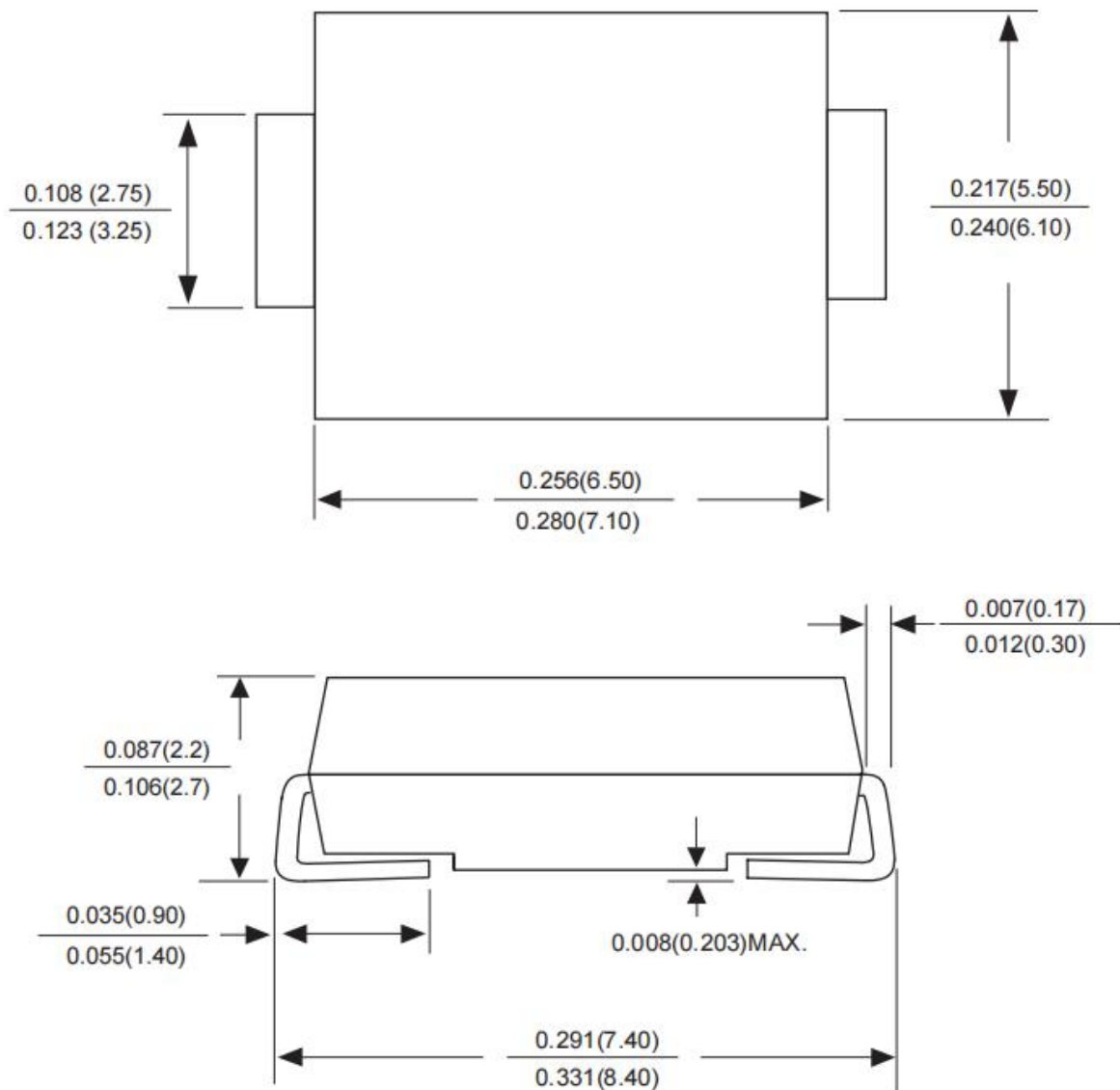


Fig.6 Maximum Non-Repetitive Peak Forward Surge Current





Package Outline Dimensions
SMC(DO-214AB)



Dimensions in inches and (millimeters)



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