



S10A THRU S10M

Surface Mount Glass Passivated Rectifier

Reverse Voltage - 50 to 1000 Volts

Forward Current -10.0Ampere

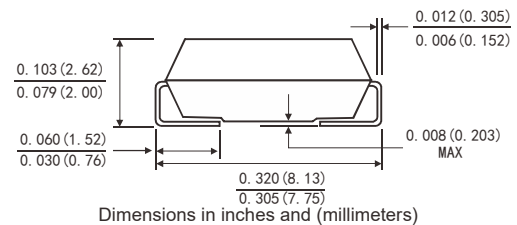
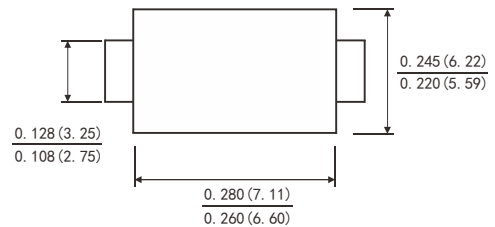
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHS 200/95/EC and WEEE 200/96/EC

MECHANICAL DATA

- Case: JEDEC DO-214AB molded plastic over glass passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
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- Weight: 0.06 oz., 0.2 g

SMC(DO-214AB)



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	S10A	S10B	S10D	S10G	S10J	S10K	S10M	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum average Forward Rectified Current 0.375"(9.5mm) lead length see Fig. 1		IAV	10.0							Amp
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method) TA=75°C		IFSM	200.0							Amps
Maximum Instantaneous Forward Voltage at 1.0 A		VF	1.1							Volts
Maximum Reverse current at rated DC Blocking Voltage	TA =25 °C	IR	5.0							μA
	TA =125 °C		50.0							
Typical Thermal resistance (Note 3)		ROJA	55							°C/W
		ROJL	17							
Typical Junction Capacitance(Note 2)		CJ	12							pF
Operating and Storage temperature Range		TJ	-55 to+150							°C
		TSTG	-55 to+150							

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm)lead length,
P.C.B. mounted

Rating and Characteristic Curves ($T_A = 25^{\circ}\text{C}$ Unless otherwise noted)
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FIG.1-FORWARD CURRENT DERATING CURVE

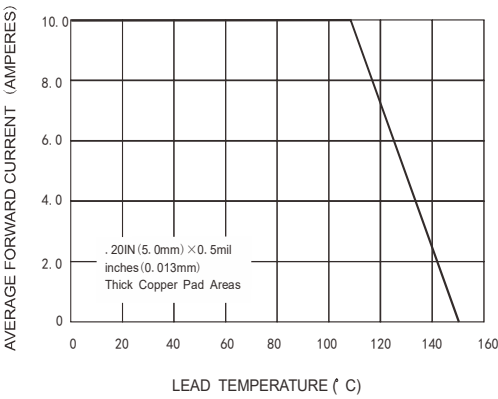


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

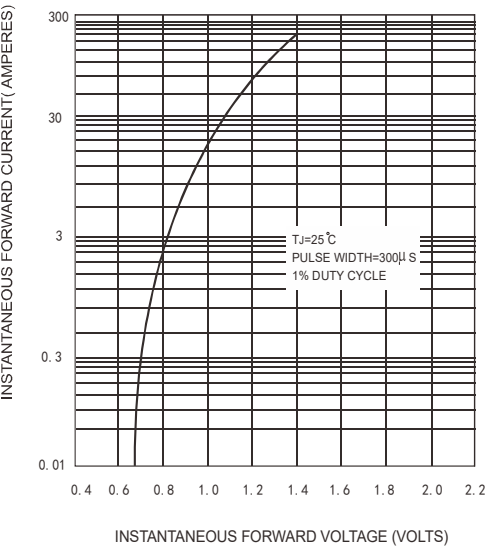


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

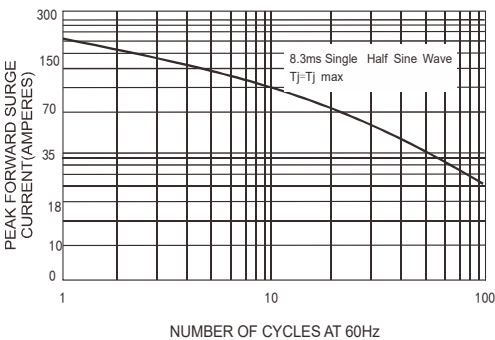


FIG.4-TYPICAL REVERSE CHARACTERISTICS

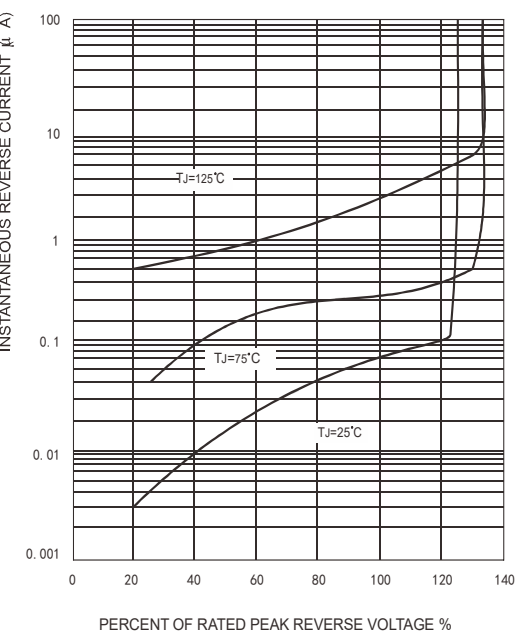


FIG.5-TYPICAL JUNCTION CAPACITANCE

