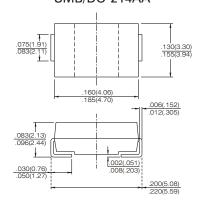
S1AB thru S1MB

SURFACE MOUNT STANDARD RECOVERY RECTIFIER

VOLTAGE - 50 TO 1000 VOLTS CURRENT - 1.0 AMPERES



SMB/DO-214AA



Dimensions in inches and (millimeters)

FEATURES

- · For surface mount applications
- · Glass passivated junction
- · Low profile package
- · High current capability
- · Easy pick and place
- · High surge current capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature soldering : 250°C/10 seconds at terminsls

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic Terminals: Pure tin plated, lead free Polarity: Indicated by cathode band Package: 12mm tape EIA STD RS-481

Weight: 0.093gram

MAXIMUM RATIXGS 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%

	SYMBOL	S1AB	S1BB	S1DB	S1GB	S1JB	S1KB	S1MB	UNITS
Maximum Repetitive 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	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_L = 110^{\circ}C$	I(AV)	1.0							Amps
Peak Forward Surge Current 8.3mm Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	lfsm	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A	VF	1.1							Volts
Maximum DC Reverse Current T _A =25°C at Rated DC Blocking Voltage T _A =125°C	IR	5 50							μΑ
Typical Junction Capacitance (NOTE 1)	Cı	12							рF
Maximum Thermal Resistance (NOTE 2)	R ⊕ JL	30							°C / W
Operating and Storage Temperature Range	TJ TstG	-55 to +150							°C

NOTES

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts
- 2. Measured on P.C.B. Board with 0.27" $\,$ x0.27" $\,$ (7.0x7.0mm) copper pad areas



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RATINGS AND CHARACTERISTIC CURVES S1AB THRU S1MB

