

SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER RS1AB THRU RS1MB

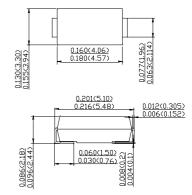
VOLTAGE RANGE 5 Forward Current 1

E 50 to 1000 Volts 1.0 Amperes

FEATURES

For surface mounted applications in order optimize board space Low profile package Built –in strain relief, ideal for automated placement Plastic package has underwrites laboratory flammability classification 94v-0 Fast switching speed Low forward voltage drop. Glass passivated chip junction High temperature soldering guaranteed: 250 °C/10 seconds at terminals **MECHANICAL DATA** Case: JEDED SMB(DO-214AA) molded plastic body. Terminals: Plated axial lead solderable per MIL-STD-750, method 2026

SMB (DO-214AA)



Dimensions in inches and (millimeters)

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%.

Polarity: Color band denoles cathode end .

Mounting Position: Any.

Weight: 0.002 ounce, 0.064 gram

		SYMBOL	RS1AB	RS1BB	RS1DB	RS1GB	RS1JB	RS1KB	RS1MB	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	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 $T_A=50$ °C		$I_{\left(AV\right)}$	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	30.0							Amps
Maximum Instantaneous Forward Voltage at 1.0A		\mathbf{V}_{F}	1.30							Volts
Maximum DC Reverse Current at rated DC blocking voltage at	T _A =25 °C	I _R	5.0 100							μΑ
	T _A =125 °C	*K								
Maximum Reverse Recovery Time (Note 1)		T _{rr}	150			250		500	nS	
Typical junction capacitance (Note 2)		CJ	10 7.0							
Maximum Thermal Resistance (Note 3)		R _{QJA} R _{QJL}	32.0 105.0							C/W
Operating and Storage Temperature Range		Tj, Tstg	-55 to +150							°C

NOTES:

1.Test conditions :I_F=0.5A I_R=1.0A Irr=0.25A

2.Measured at 1MHZ and applied reverse voltage of 4.0 Vplts.

3.Thermal resistance from junction to ambient and from junction to lead mounted on 0.2 0.2"(5.0 x 5.0mm) copper pad areas.



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Ratings and Characteristic Curves (T_A = 25⁺C unless otherwise noted)

