

# SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER RS1AB THRU RS1MB

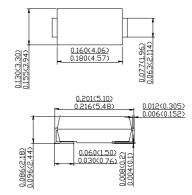
VOLTAGE RANGE 5 Forward Current 1

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 <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	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 <sub>FSM</sub>	30.0							Amps
Maximum Instantaneous Forward Voltage at 1.0A		$\mathbf{V}_{\mathrm{F}}$	1.30							Volts
Maximum DC Reverse Current at rated DC blocking voltage at	T <sub>A</sub> =25 °C	I <sub>R</sub>	5.0 100							μΑ
	T <sub>A</sub> =125 °C	*K								
Maximum Reverse Recovery Time (Note 1)		T <sub>rr</sub>	150			250		500	nS	
Typical junction capacitance (Note 2)		CJ	10 7.0							
Maximum Thermal Resistance (Note 3)		R <sub>QJA</sub> R <sub>QJL</sub>	32.0 105.0							C/W
Operating and Storage Temperature Range		Tj, Tstg	-55 to +150							°C

NOTES:

1.Test conditions :I<sub>F</sub>=0.5A I<sub>R</sub>=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<sub>A</sub> = 25<sup>+</sup>C unless otherwise noted)

