

DATA SHEET

RS1A THRU RS1M

RECTIFIER SPECIALISTS TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

Pb

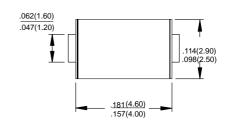
FEATURES

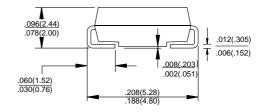
- · Ideal for surface mounted applications
- · Low leakage current
- · Glass passivated junction
- High temperature soldering : 260°C /10 seconds at terminals
- Pb free product at available: 99% Sn above meet RoHS environment substance directive request.

MECHANICAL DATA

- · Case: Molded plastic
- · Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked
- · Mounting position: Any

SMA/DO-214AC Unit:inch(mm)





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

		SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	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 at TA = 55 °C		Ю	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30							Amps
Maximum Forward Voltage at 1.0A DC		VF	1.3							Volts
Maximum DC Reverse Current at	@TA = 25 °C		5.0							uAmps
Rated DC Blocking Voltage	@TA = 125 °C	lR	150							
Maximum Reverse Recovery Time (Note 3)		trr		150		250	500		nSec	
Maximum Thermal Resistance (Note 2)		RθJA	30							°C/W
Typical Junction Capacitance (Note 1)		CJ	15							pF
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150 °C							°C

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

- 2. Thermal Resistance (Junction to Ambient), .24in (6.0mm) 2 copper pads to each terminal.
- 3. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

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RATING AND CHARACTERISTIC CURVES

RS1A THRU RS1M

