

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

RS1A THRU RS1M

TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Glass passivated junction

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rated flame retardant

* Lead: Solder plated, solderable per

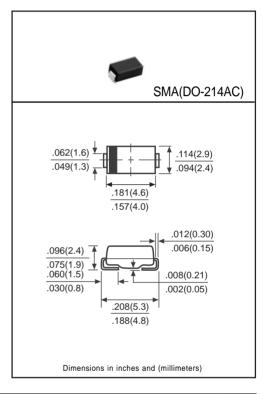
MIL-STD-750, Method 2026

* Polarity: As marked* Mounting position: Any* Weight: 0.064 gram approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



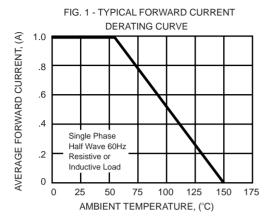
		SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	500	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C		lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30						Amps	
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.3							Volts
Maximum DC Reverse Current at	@TA=25°C	l _R	5.0							μAmps
Rated DC Blocking Voltage	@Ta=125°C		150							
Maximum Thermal Resistance (Note 2)		RθJL	30							°C/W
Maximum Reverse Recovery Time (Note 3)		trr	150		250	50	00	nSec		
Typical Junction Capacitance (Note 1)		CJ	15							pF
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150							٥C

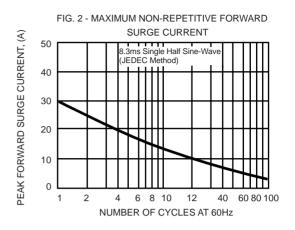
NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

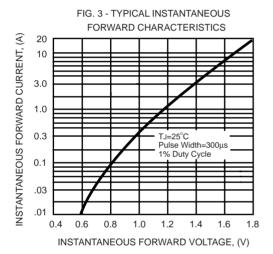
- 2. Thermal Resistance (Junction to Ambient), .24in² (6.0mm²) copper pads to each terminal.
- 3. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

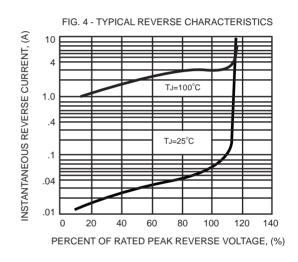
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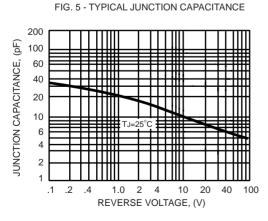
RATING AND CHARACTERISTIC CURVES (RS1A THRU RS1M)











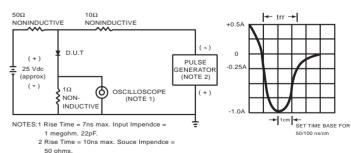


FIG. 6 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARAC TERISTIC

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