

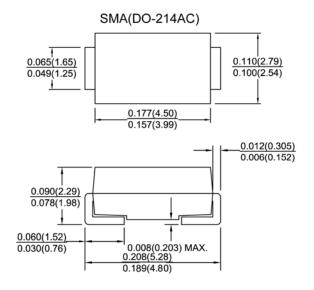
SURFACE MOUNT FAST RECOVERY RECTIFIER RS1A THRU RS1M 50 to 1000 V 1 A

FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals

MECHANICAL DATA

- Case: Molded plastic, DO-214AC(SMA)
- Terminals: Solder plated, solderable per MIL-STD-750,method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Packaging: 12mm tape per EIA STD RS-481
- Weight: 0.003 ounce, 0.064 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	Symbols	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Units
Maximum Recurrent 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. 375" (9.5mm) Lead Length @ $T_A = 55$ °C	I _(AV)	1.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	30							Amp
Maximum instantaneous Forward Voltage at @1.0A	VF	1.3							Volts
Maximum Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=125^{\circ}C$	I _R	5.0 200							uAmp
Maximum Reverse Recovery Time (Note 1)	TRR	150 250 500					00	nS	
Typical Junction Capacitance (Note 2)	CJ	25							pF
Operating and Storage Temperature Range	T _J T _{STG}	-55 to +150							°C

NOTES:

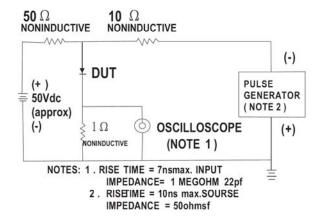
1.Measured at 1 M_{HZ} and applied reverse voltage of 4.0 VDC.

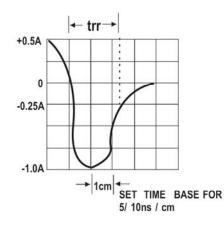
2.Thermal resistance from junction to lead mounted on P.C.B. with 0.3 x 0.3" (8.0 x 8.0mm) copper pad areas 3.Reverse Recovery Test Conditions : I_F =.5A , I_R =1A , I_R =.25A.

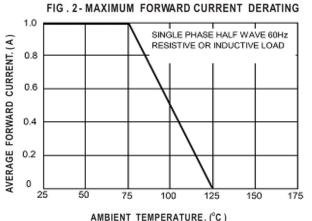


RATINGS AND CHARACTERISTIC CURVES (RS1A THRU RS1M)

FIG .1 -REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM







AMBIENT TEMPERATURE. (°C)

FIG . 4 - TYPICAL FORWARD CHARACTERISTICS

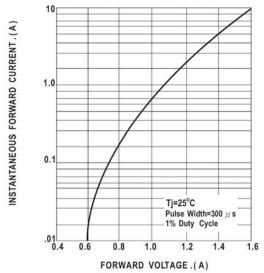
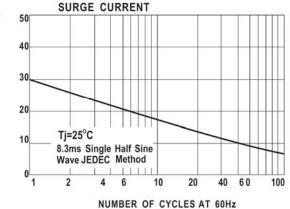


FIG. 3-- MAXIMUM NON-REPETITIVE FORWARD



PEAK FORWARD SURGE CURRENT.(A)

FIG. 5 - TYPICAL JUNCTION CAPACITANCE

