RS1A THRU RS1M

SURFACE MOUNT ULTRA FAST RECTIFIER

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere

FEATURES

The plastic package carries Underwriters Laboratory

Flammability Classification 94V-0

For surface mounted applications

Fast switching for high efficiency

Low reverse leakage

Built-in strain relief, ideal for automated placement

High forward surge current capability

High temperature soldering guaranteed:

250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC SMA-J molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

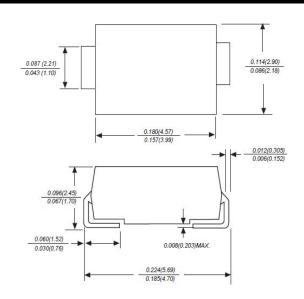
Mounting position: Any

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%

SMA-J



Dimensions in inches and (millimeters)

PARAMETER	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	V _{RMS}	100	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 _L = 75 °C	I _(AV)	1.0							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	V_{F}	1.3							VOLTS
Maximum DC Reverse Current $T_A = 25^{\circ}C$ at Rated DC blocking voltage $T_A = 100^{\circ}C$	I _R	5.0 50.0							uA
Maximum reverse recovery time (NOTE 1)	t _{rr}	150			250	500		ns	
Typical Junction Capacitance (Note 2)	CJ	15.0							pF
Typical Thermal Resistance (Note 3)	Rеja	50.0							℃W
Operating junction and Storage temperature range	T _J ,Тsтg	-65 to +150							$^{\circ}$
1- Reverse recovery condition I _E =0.5A,I _P =1.0A,Irr=0.2	5A								

- 2-Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3- P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

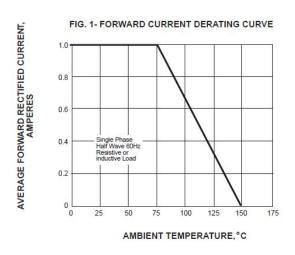
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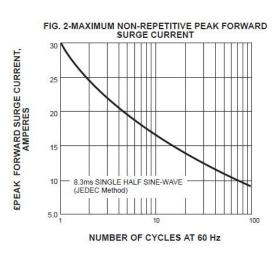
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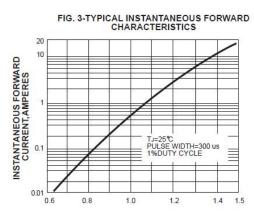
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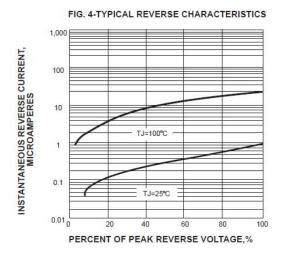
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RATINGS AND CHARACTERISTIC CURVES

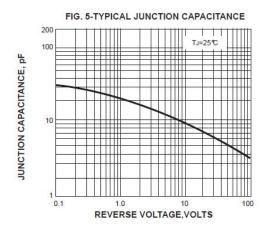


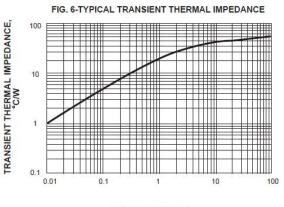












t,PULSE DURATION,sec.

Note: Specifications are subject to change without notice.

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