



RS1A THRU RS1M

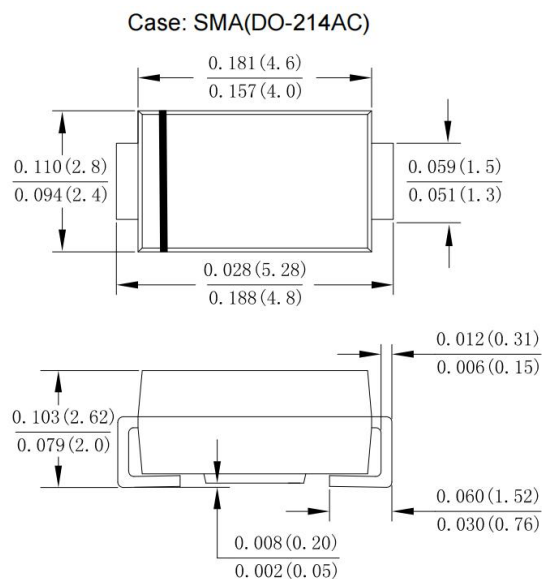
1.0AMP Surface Mount Glass Fast Recovery Rectifier

FEATURES

- * Fast switching for high efficiency
- * Low Power Loss,High Efficiency
- * High current capability
- * For Use in Low Voltage Application

MECHANICAL DATA

- * Case: Molded plastic SMA
- * Polarity:Cathode Band or Cathode Notch
- * Mounting position: Any
- * Making: Type Number



Dimensions in inches and (millimeters)

MAXIMUM RATINGS(Ta=25℃ Unless otherwise specified)

Rating at 25℃ ambient temperature unless otherwise specified
Single phase,half wave,60Hz,resistive or inductive load
For capacitive load derate current by 20%

TYPE NUMBER	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @TL=100 °C	IF(AV)	1.0							A
Peak Forward Surge Current 8.3ms Single half sine -wave superimposed on rated load(JEDEC Method)	IFSM	30							A
Rating for fusing (t<8.3ms)	I²t	3.74							A²s
Forward Voltage @IF=1.0A	V FM	1.3							V
Peak Reverse Current @TA =25 °C	IR	5.0							uA
At Rated DC Blocking Voltage @TA =125 °C		200							
Maximum Reverse Recovery Time (Note1)	Trr	150				250	500		ns
Typical Junction Capacitance (Note 2)	CJ	7							pF
Typical Thermal Resistance Junction to Ambient	RθJA	100							°C/W
	RθJL	32							
Operating Temperature Range	TJ	-55 to+150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

Note: 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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■ TYPICAL CHARACTERISTICS

Fig. 1 Forward Current Derating Curve

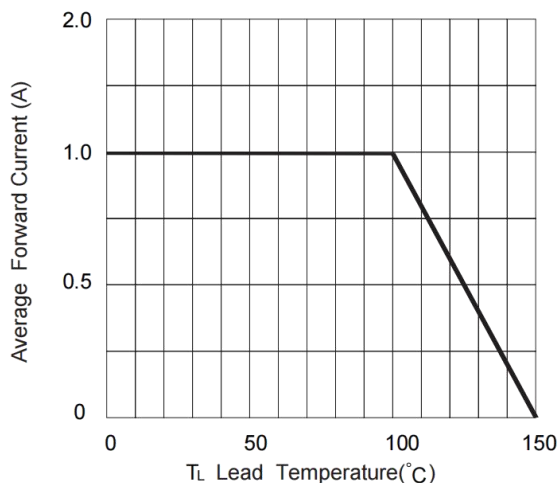


Fig. 2 Typ. Forward Characteristics

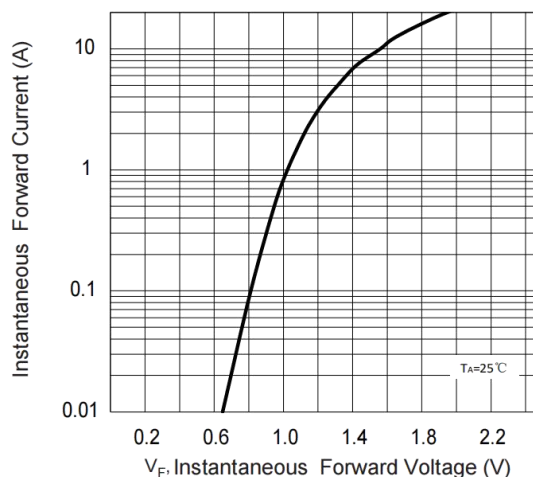


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

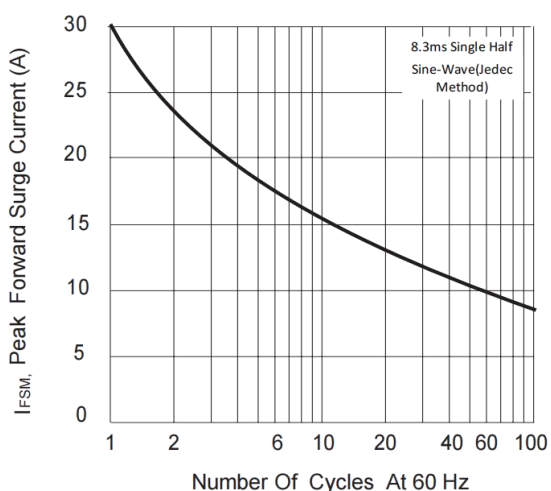


Fig. 4 Typical Junction Capacitance

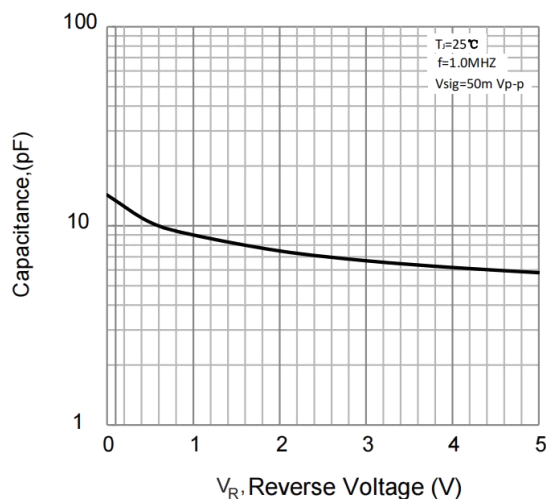


Fig. 5 Typical Reverse Characteristics

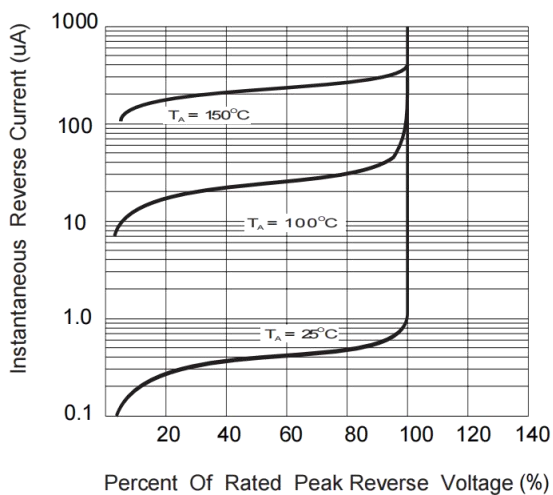


Fig. 6 Mounting PAD Layout

