



S1A THRU S1M

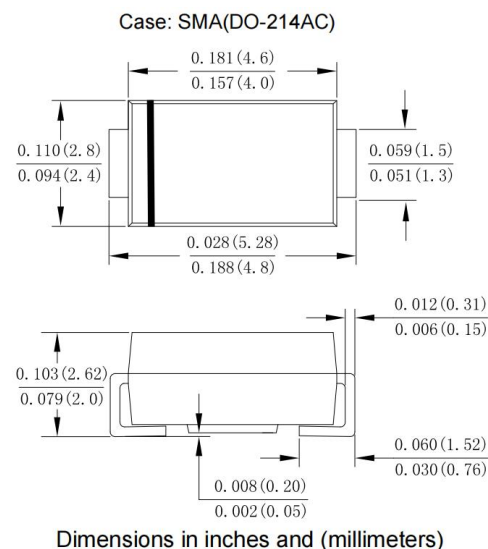
1.0AMP Surface Mount Glass Recovery Rectifier

■ FEATURES

- * For surface mounted application
- * Low forward voltage drop
- * High current capability
- * High reliability

■ MECHANICAL DATA

- * Case: Molded plastic SMA
- * Polarity: Color band dentes cathode end
- * Mounting position: Any
- * Making: Type Number



■ 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	S1A	S1B	S1D	S1G	S1J	S1K	S1M	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℃	IF (AV)	1.0							A
Non-Repetitive Peak Forward Surge @Tj=25℃ Current 8.3ms Single half sine-wave @Tj=125℃ Superimposed On Rated Load (JEDEC Method)	IFSM	30 24							A
Non-Repetitive Peak Forward Surge @Tj=25℃ Current 1.0ms Single half sine-wave @Tj=125℃ Superimposed On Rated Load (JEDEC Method)	IFSM	60 48							A
10000 times of the wave surge current (time width 1ms, time interval 3s)	IFSM	22.5							A
Rating for fusing (t<8.3ms)	I 2 t	3.74							A 2 s
Forward Voltage @IF=1.0A	VFM	1.0							V
Peak Reverse Current @TA =25 ℃	IR	5.0							uA
At Rated DC Blocking Voltage @TA =125 ℃		200							
Typical Junction Capacitance (Note 1)	CJ	12							pF
Typical reverse recovery time (Note 2)	Trr	1.5							ns
Typical Thermal Resistance	RθJL	23							℃/W
	RθJC	25							
	RθJA	57							
Operating and Storage Temperature Range	TJ,TSTG	-55 to+150							℃

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

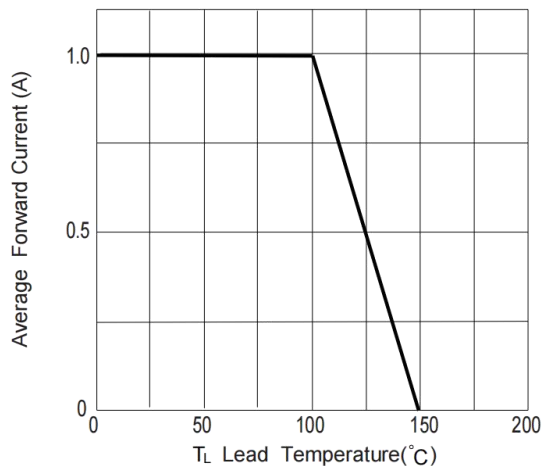


Fig. 2 Typ. Forward Characteristics

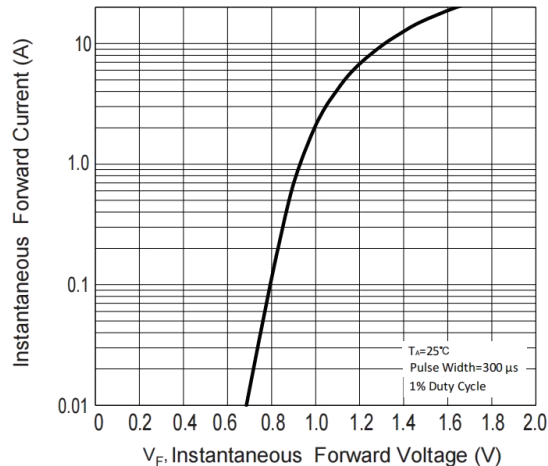


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

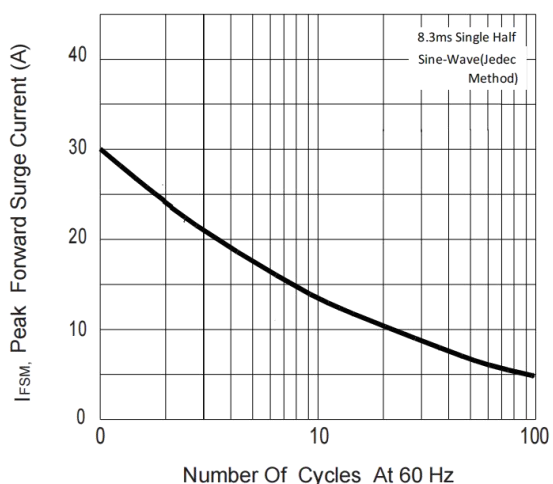


Fig. 4 Typical Junction Capacitance

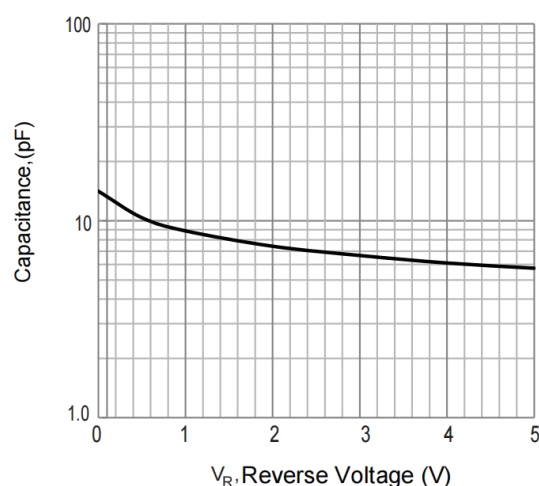


Fig. 5 Typical Reverse Characteristics

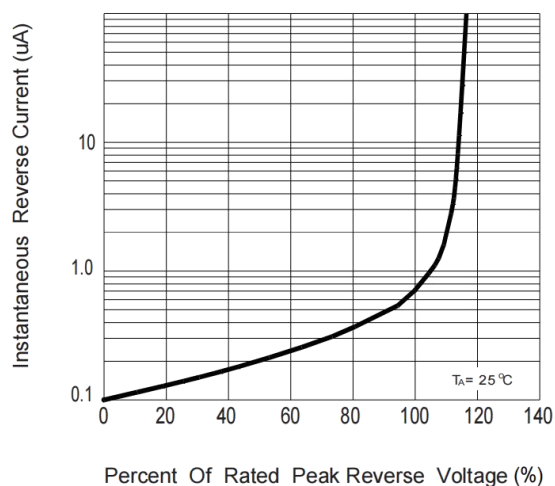


Fig. 6 Mounting PAD Layout

