



RS3A THRU RS3M

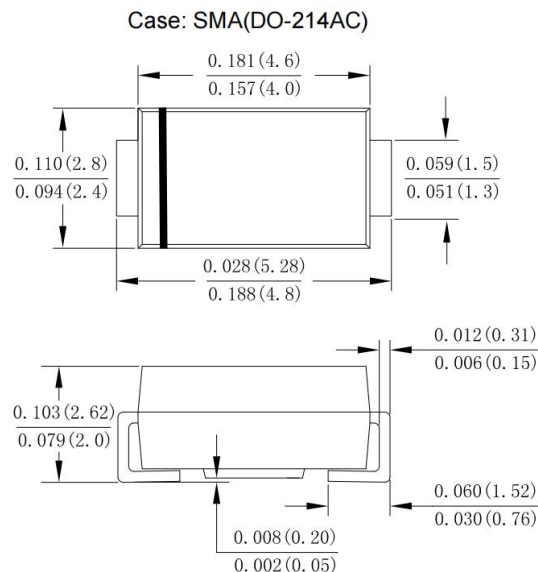
2.0AMP Surface Mount Glass Fast Recovery Rectifier

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



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	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	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)	3.0							A
Peak Forward Surge Current 8.3ms Single half sine -wave superimposed on rated load (JEDEC Method)	IFSM	100							A
Rating for fusing (t<8.3ms)	I²t	14.94							A²s
Forward Voltage @IF=3.0A	VFM	1.3							V
Peak Reverse Current @TA =25 ℃	IR	10							uA
At Rated DC Blocking Voltage @TA =125 ℃		250							
Maximum Reverse Recovery Time (Note1)	Trr	150				250	500		ns
Typical Junction Capacitance (Note 2)	CJ	10							pF
Typical Thermal Resistance Junction to Ambient	RθJA RθJL	50 15							℃/W
Operating Temperature Range	TJ	-55 to+150							℃
Storage Temperature Range	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

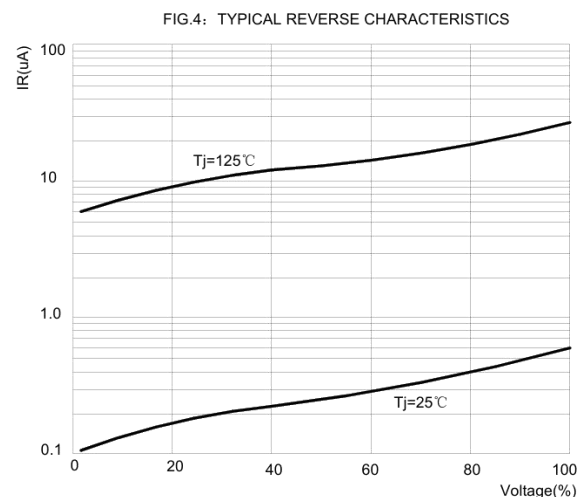
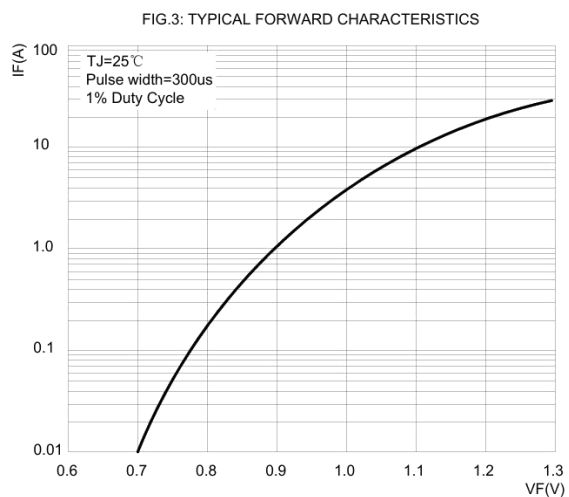
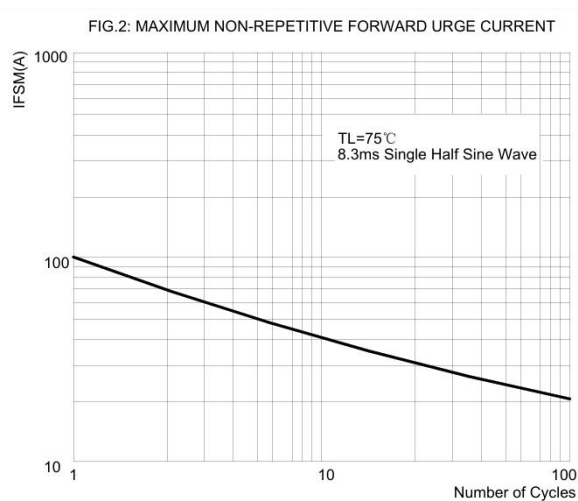
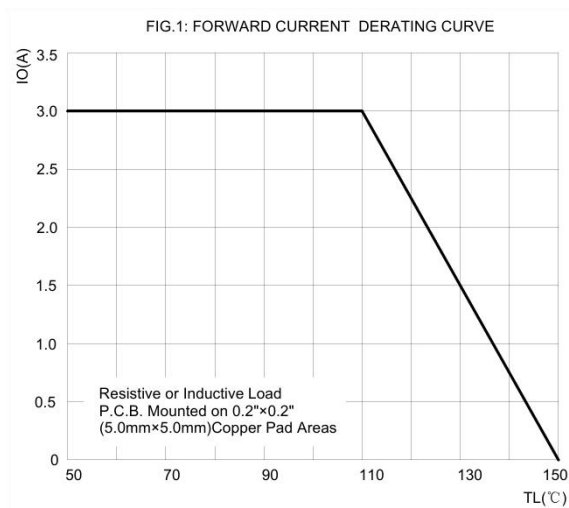


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

