

FEATURES

- Average Forward Current: I_{F(AV)}=1A
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
RS1A-RS1M	SMA	RS1 *	2000			





★:From A-M

MAXIMUM RATINGS (Ta=25 unless otherwise noted)

		Unit		RS1							
Item	Symbol		Test Conditions	Α	В	D	G	J	Κ	М	
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000	
Maximum RMS Voltage	V _{RMS}	V		35	70	140	280	420	560	700	
Average Forward Current	I _{F(AV)}	A	60Hz Half-sine wave , Resistance load , TL=75 $^\circ$	1.0							
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave, 1 cycle,Ta=25℃	30							
Operation Junction and Storage Temperature Range	T _J ,T _{STG}	Ĉ		-55 ~ +150							

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

				RS1								
ltem	Symbol	Unit	Test Condition			В	D	G	J	κ	Μ	
Peak Forward Voltage	V_{F}	V	I _F =1.0A			1.3						
Maximum reverse recovery time	trr	ns	I _F =0.5A,I _R =1.0A,I _m =0.25A			150				500		
Peak Reverse Current	I _{RRM1}	μA	$V_{RM} = V_{RRM}$	T _a =25℃				5				
	I _{RRM2}			Ta=125℃	50							
Thermal	$R_{\theta_{J}-A}$	°C/W	Between juncti	on and ambient	55							
Resistance(Typical)	$R_{ extsf{ hetaJ-L}}$	0, 11	Between juncti	on and terminal	25							

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



Typical Characteristics

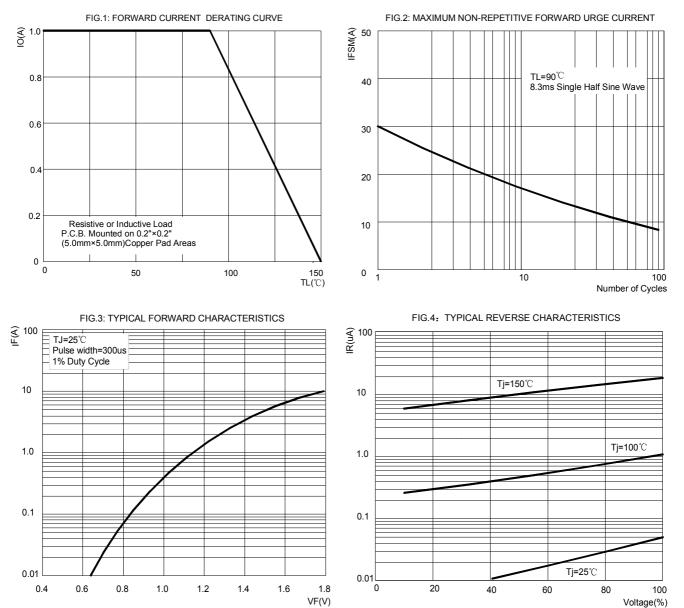
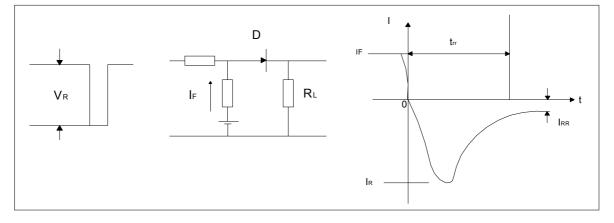
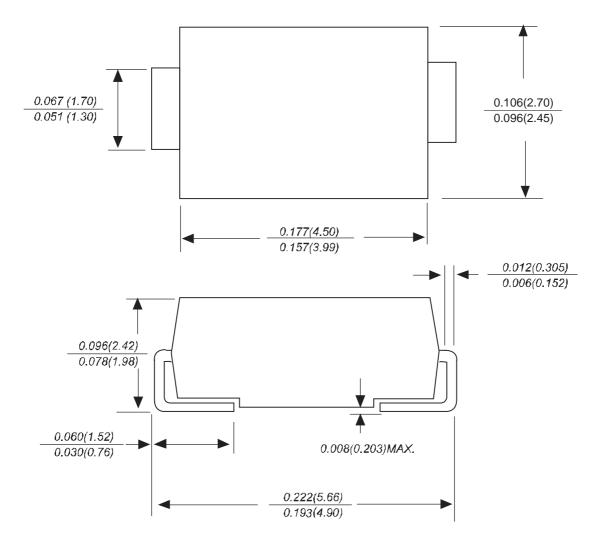


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





SMA Package Outline Dimensions



Dimensions in inches and (millimeters)



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