

FEATURES

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
US1A-US1M	SMA	US1 *	2000			







★:FromA-M

MAXIMUM RATINGS (Ta=25 unless otherwise noted)

	Symbol	Unit		US1								
ltem			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}	°C		-55 ~ +150								

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

						US1							
ltem	Symbol	Unit	Test Condition		Α	В	D	G	J	κ	М		
Peak Forward Voltage	V _F	V	I _F =1.0A			1.0		1.3	1.7				
Maximum reverse recovery time	t _{rr}	ns	I⊧=0.5A,I _R =1.0A,I _{ff} =0.25A			50				75			
Peak Reverse Current	I _{RRM1}	μA	V _{RM} =V _{RRM}	Ta=25℃	5								
	I _{RRM2}			Ta=125℃									
Thermal	$R_{_{ ext{ hetaJ-A}}}$	°C/W	Between juncti	ion and ambient	55								
Resistance(Typical)	$R_{ extsf{ heta}J extsf{-L}}$			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

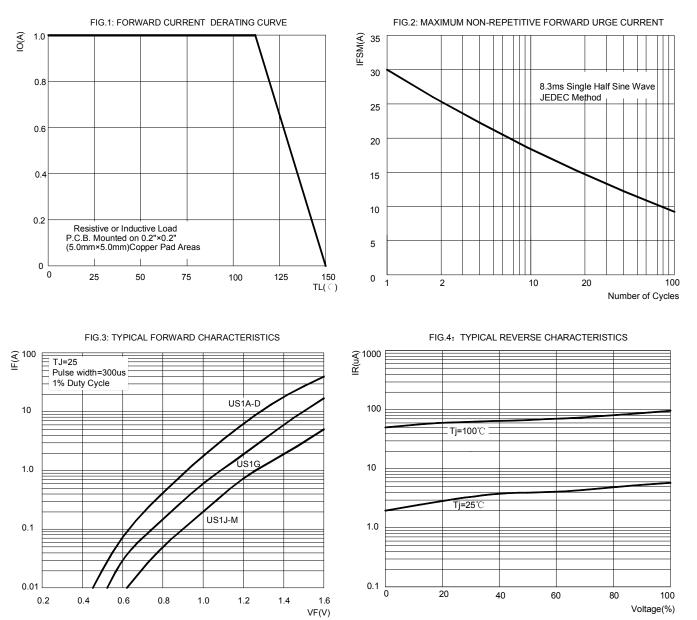
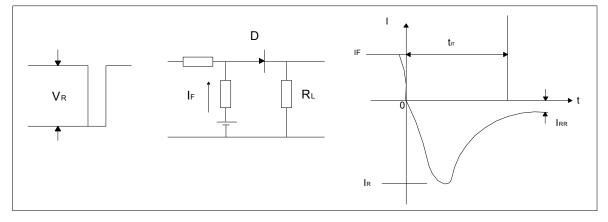
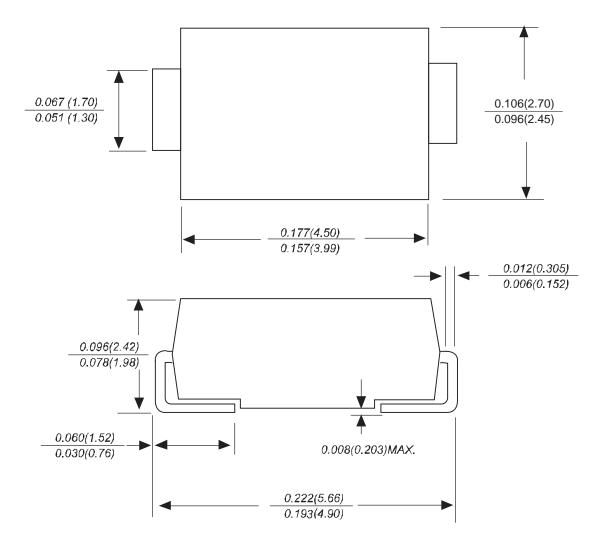


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





SMA Package Outline Dimensions



Dimensions in inches and (millimeters)



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