

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			



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Item	Symbol	Unit		US1							
			Test Conditions	Α	В	D	G	J	K	M	
Repetitive Peak Reverse Voltage	V_{RRM}	٧		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)}	А	60Hz Half-sine wave, Resistance load, T _L =75°C	1.0							
Surge(Non-repetitive)Forward Current	I _{FSM}	А	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						
Item	Symbol	Unit	Test Condition		Α	В	D	G	J	K	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 _F =0.5A,I _R =1.0A,I _π =0.25A			50				75		
Peak Reverse Current	I _{RRM1}	μA	V _{RM} =V _{RRM}	T _a =25℃	5							
	I _{RRM2}			T _a =125℃								
Thermal	$R_{\theta J-A}$	°C/W	Between juncti	ion and ambient	55							
Resistance(Typical)	$R_{ heta J ext{-}L}$	CIVV	Between juncti	tion and terminal			25	25				

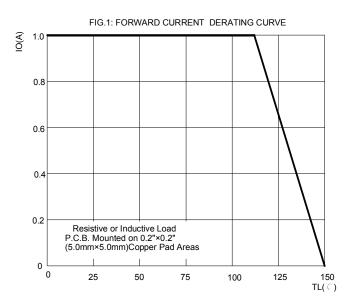
Notes:

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

^{★:}FromA-M



Typical Characteristics



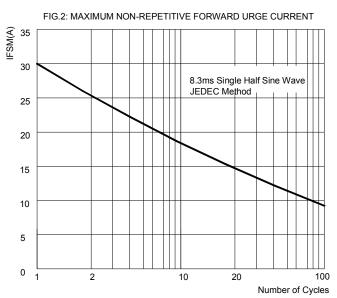


FIG.3: TYPICAL FORWARD CHARACTERISTICS

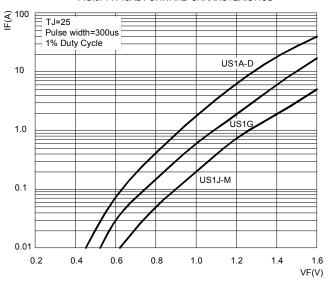


FIG.4: TYPICAL REVERSE CHARACTERISTICS

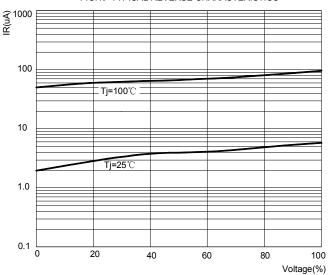
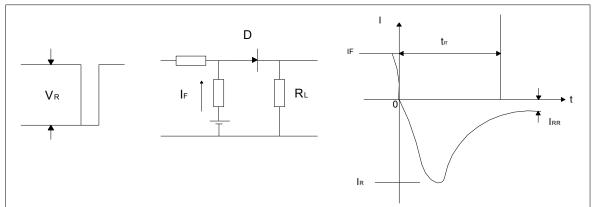
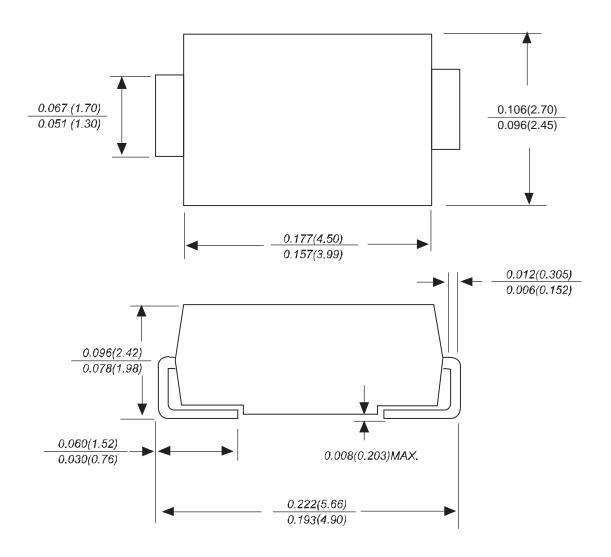


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





SMA Package Outline Dimensions



Dimensions in inches and (millimeters)



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