



## FEATURES

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



SMA

## 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)

Item	Symbol	Unit	Test Conditions	US1						
				A	B	D	G	J	K	M
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, $T_L=75^\circ C$	1.0						
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz Half-sine wave, 1 cycle, $Ta=25^\circ C$	30						
Operation Junction and Storage Temperature Range	$T_J, T_{STG}$	°C		-55 ~ +150						

## ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Test Condition	US1						
				A	B	D	G	J	K	M
Peak Forward Voltage	$V_F$	V	$I_F=1.0A$	1.0	1.3	1.7				
Maximum reverse recovery time	$t_{rr}$	ns	$I_F=0.5A, I_R=1.0A, I_r=0.25A$	50	75					
Peak Reverse Current	$I_{RRM1}$	$\mu A$	$V_{RM}=V_{RRM}$	$T_a=25^\circ C$	5					
	$I_{RRM2}$			$T_a=125^\circ C$	50					
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	Between junction and ambient		55					
	$R_{\theta J-L}$		Between junction 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

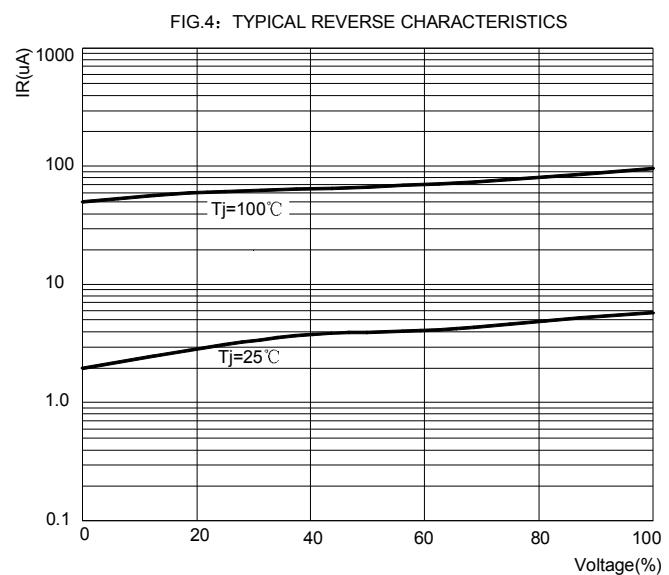
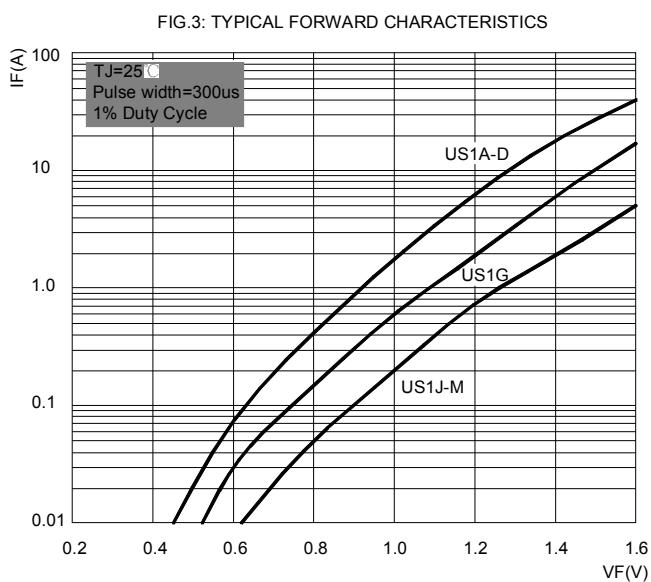
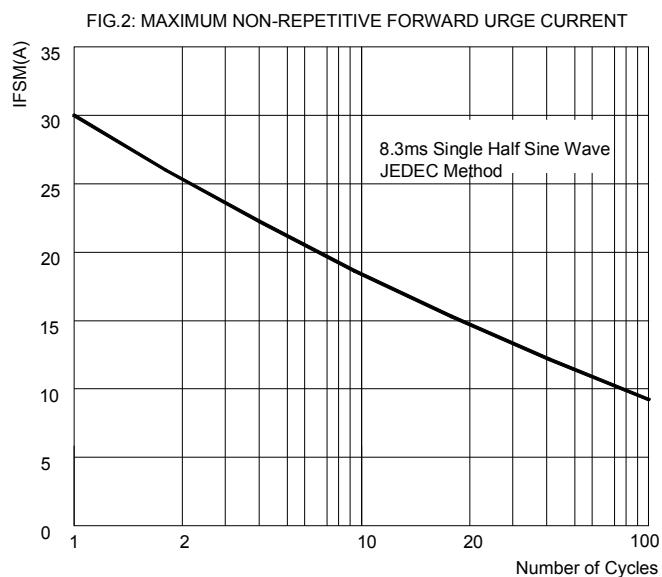
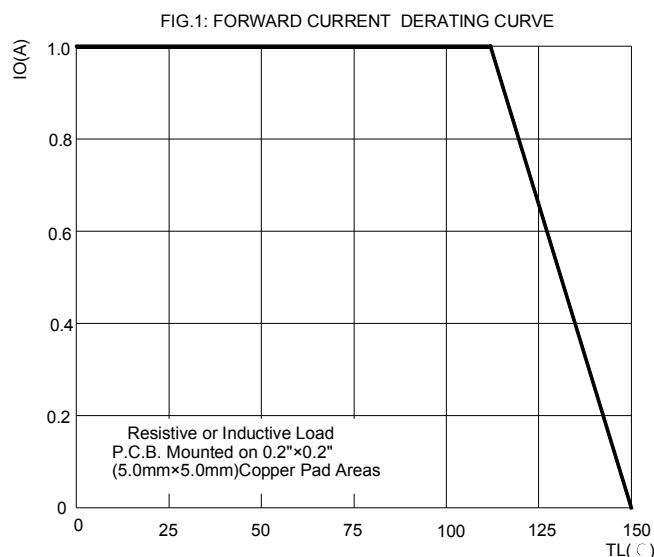
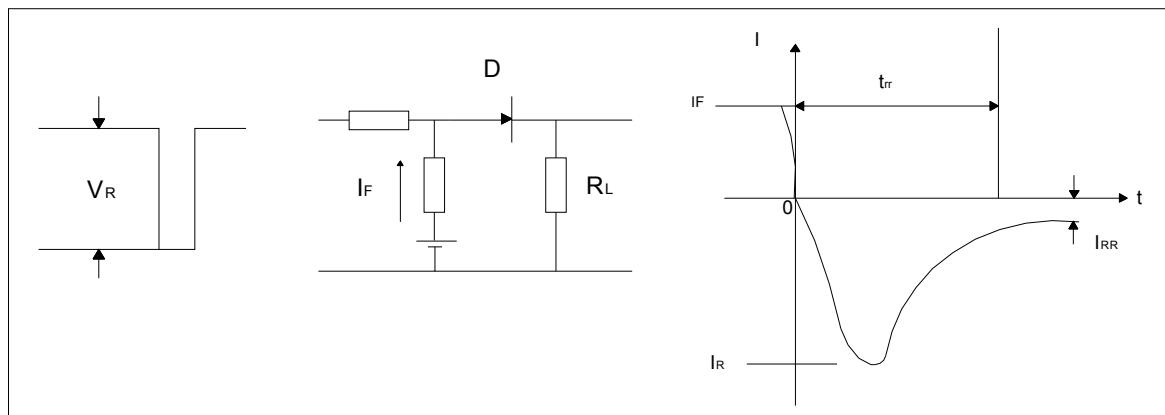
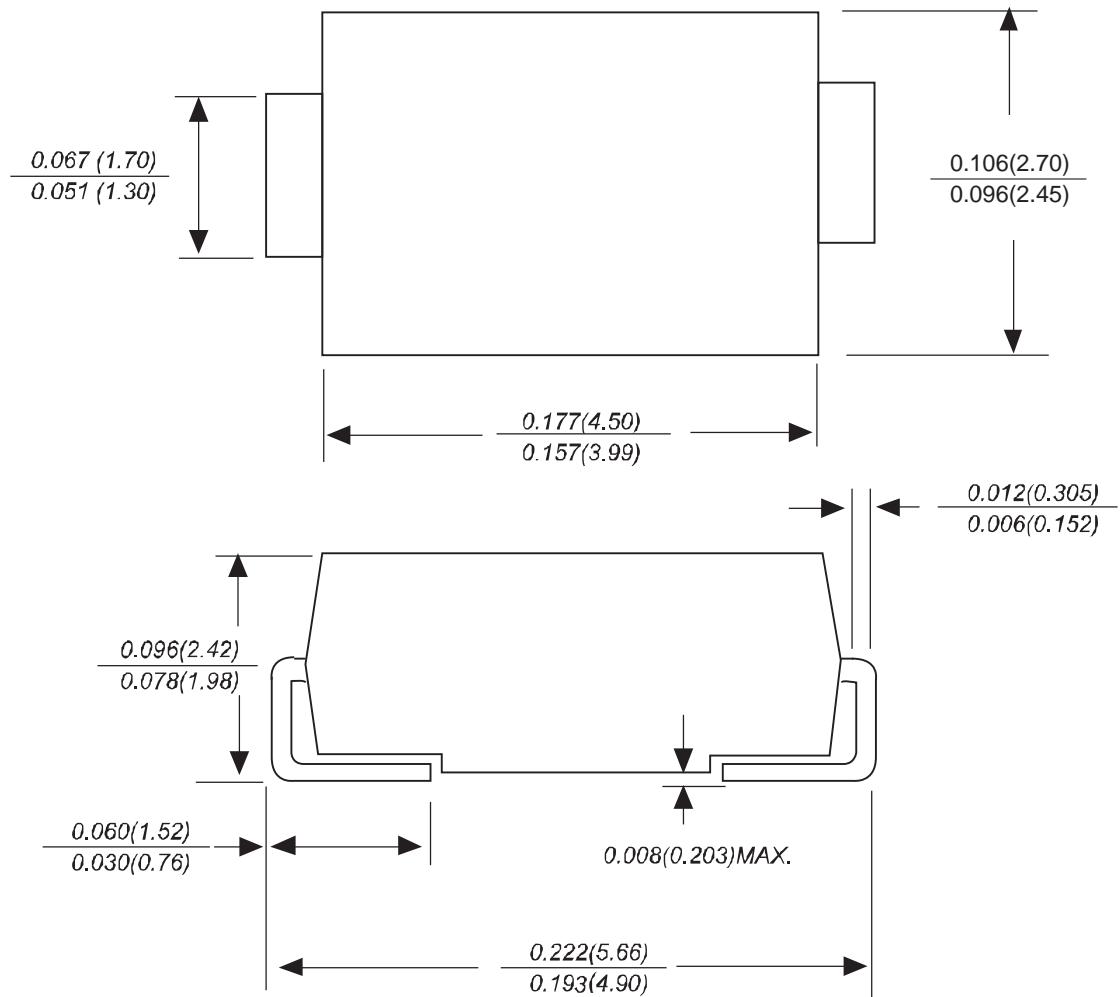


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





### SMA Package Outline Dimensions



*Dimensions in inches and (millimeters)*



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