

Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)	
US1M-E3/61T	SMA (DO-214AC)	US1M	2000	





Maximum Ratings (Ta=25 unless otherwise noted)

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Item	Symbol	Unit	Test Conditions	US1M	
Repetitive Peak Reverse Voltage	V_{RRM}	٧		1000	
Maximum RMS Voltage	V _{RMS}	٧		700	
Average Forward Current	I _{F(AV)}	Α	60Hz Half-sine wave, Resistance load,T _L =75℃	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}	$^{\circ}$		-55 ~ +150	

Electrical Characteristics (Ta=25 unless otherwise specified)

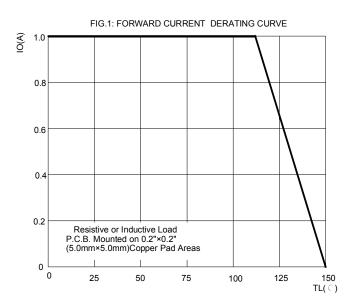
Item	Symbol	Unit	Test Condition		US1M
Peak Forward Voltage	V_{F}	٧	I _F =1.0A		1.7
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A,I _{rr} =0.25A		75
Peak Reverse Current	I_{RRM1}	μА	V _{RM} =V _{RRM}	T _a =25℃	5
	I _{RRM2}			T _a =125℃	50
Thermal	$R_{\theta J\text{-}A}$	°C/W	Between junction and ambient		55
Resistance(Typical)	$R_{\theta J\text{-}L}$	C/ VV	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



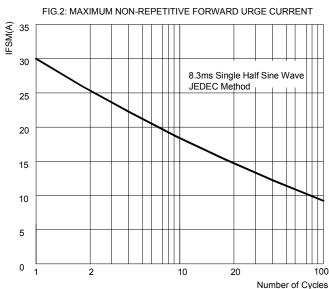


FIG.3: TYPICAL FORWARD CHARACTERISTICS

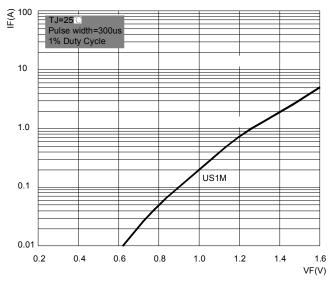


FIG.4: TYPICAL REVERSE CHARACTERISTICS

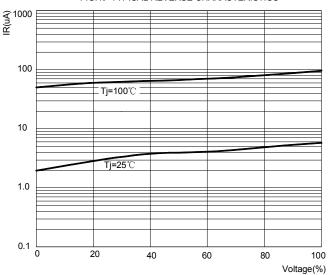
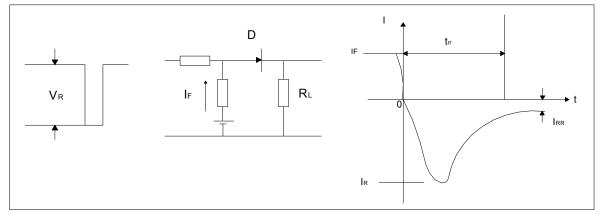
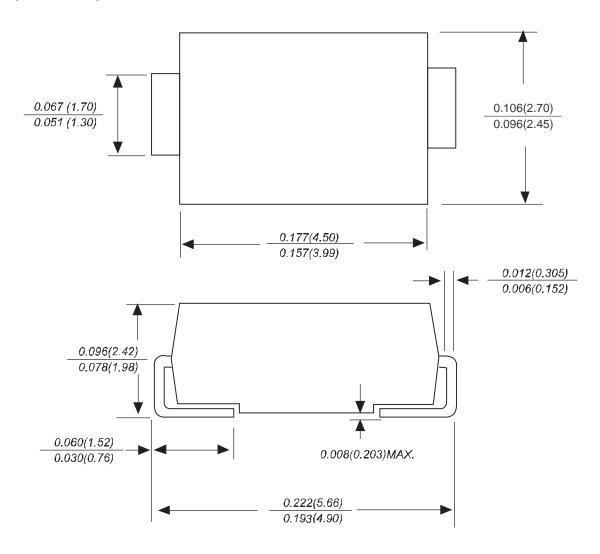


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





Package Outline Dimensions SMA(DO-214AC)



Dimensions in inches and (millimeters)



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