

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 (DO-214AC)	US1x	2000			







Maxmim Ratings (Ta=25 unless otherwise noted)

	Symbol	Unit	Test Conditions	US1							
Item				Α	В	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)}	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}	$^{\circ}\! \mathbb{C}$		-55 ~ +150							

Electrcal Charcteristics (Ta=25 unless otherwise specified)

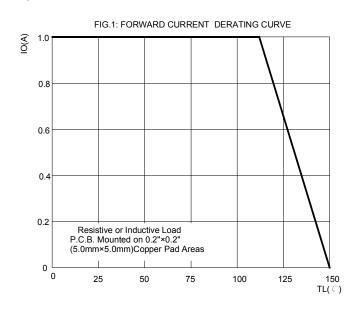
			-		US1							
Item	Symbol	Unit	Test Condition		Α	В	D	G	J	K	M	
Peak Forward Voltage	V_{F}	٧	I _F =1.0A			1.0		1.3	1.7			
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A,I _π =0.25A			50			75			
Peak Reverse Current	I _{RRM1}		V_{RM} = V_{RRM}	T _a =25℃	5							
	I _{RRM2}	μA	VRM−VRRM	T _a =125℃	50							
Thermal	$R_{\theta J\text{-A}}$	°C/W	Between juncti	on and ambient	55							
Resistance(Typical)	$R_{\theta J\text{-}L}$	O1 VV	Between juncti	on and terminal	25			25				

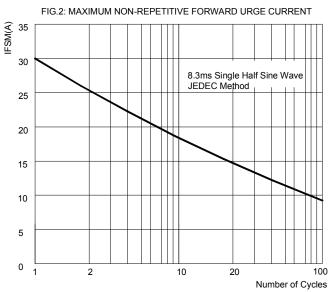
Notes:

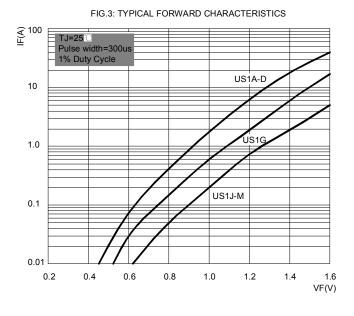
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



Typical Characteristics







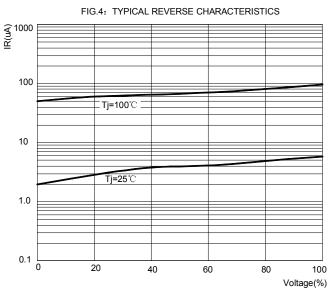
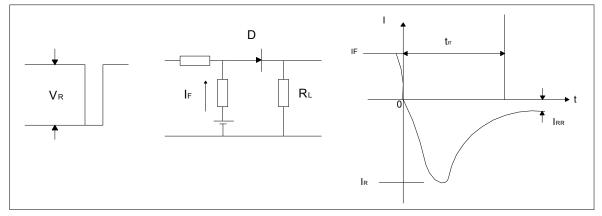
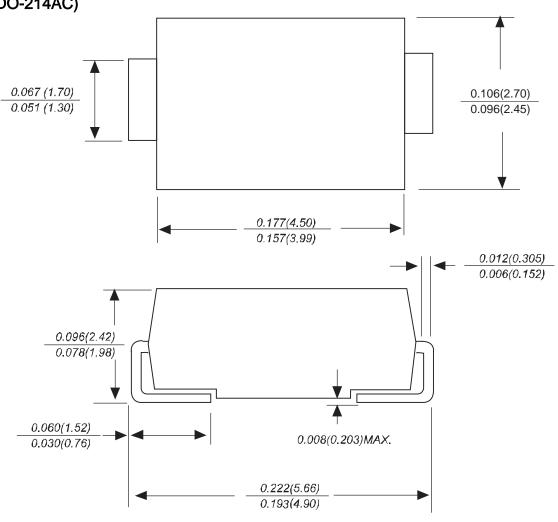


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





Package Outline Dimensions SMA(DO-214AC)



Dimensions in inches and (millimeters)



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