

Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
RS1A-RS1M	SMA (DO-214AC)	RS1x	2000







Maximum Ratings (Ta=25°C unless otherwise noted)

И		Unit		RS1							
Item	Symbol		Test Conditions	Α	В	D	G	J	K	М	
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}	Α	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)

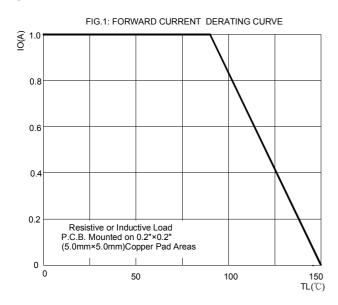
			T 10	RS1								
Item	Symbol	Unit	Unit Test Condition		Α	В	D	G	J	K	M	
Peak Forward Voltage	V_{F}	V	I _F =1.0A			1.3						
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A,I _π =0.25A			150				500		
Peak Reverse Current	I _{RRM1}	μА	V _{RM} =V _{RRM}	T _a =25°C				5				
	I _{RRM2}			T _a =125℃	50							
Thermal	$R_{\theta J-A}$	°C/W	Between juncti	on and ambient		55						
Resistance(Typical)	$R_{\theta J-L}$	<i>O, W</i> V	Between junction and terminal			25						

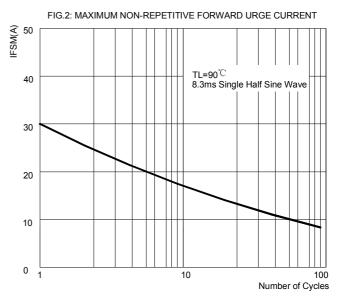
Notes:

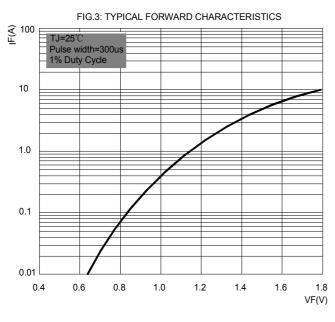
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



Typical Characteristics







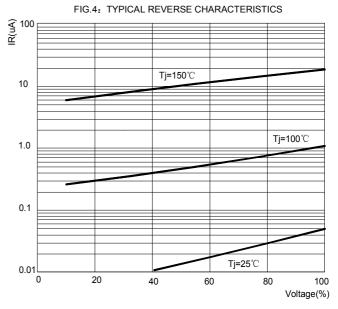
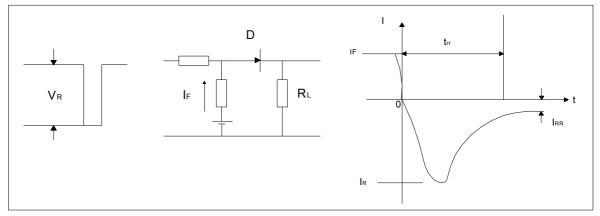
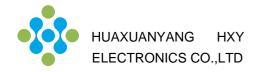
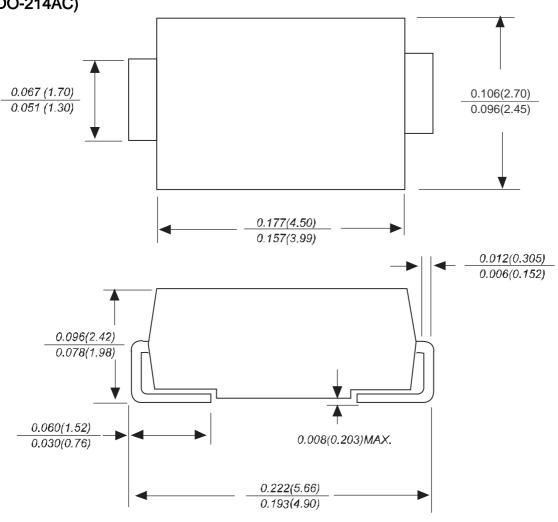


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





Package Outline Dimensions SMA(DO-214AC)



Dimensions in inches and (millimeters)



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