

Features

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

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SMAF



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Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
US1AF-US1MF	SMAF	US1xF	10000			

x: From A-M

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

Item	Symbol	Unit	Test Conditions	US1							
				AF	BF	DF	GF	JF	KF	MF	
Repetitive Peak Reverse Voltage	V_{RRM}	٧		50	100	200	400	600	800	1000	
Maximum RMS Voltage	V _{RMS}	٧		35	70	140	280	420	560	700	
Average Forward Current	I _{F(AV)}	Α	60Hz Half-sine wave, Resistance load, T L=115°C	1.0							
Surge(Non-repetitive)Forward Current	I _{FSM}	Α	60Hz Half-sine wave , 1 cycle,Ta=25°C	30							
Operation Junction and Storage Temperature Range	T_{J} , T_{STG}	°C		-55 ~ +150							

Electrcal Charcteristics (Ta=25°C unless otherwise specified)

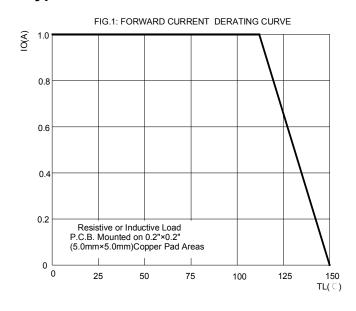
			T 10 111			US1							
Item	Symbol	Unit	Test Condition		AF	BF	DF	GF	JF	KF	MF		
Peak Forward Voltage	V_{F}	V	I _F =1.0A			1.0		1.3	1.7				
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A,I _{rr} =0.25A			50				75			
Peak Reverse Current	I _{RRM1}		V _{RM} =V _{RRM}	T _a =25° C	5								
	I _{RRM2}	μA		T _a =125° C	100								
Resistance(Typical)	$R_{\theta J-A}$	°C/W	Between juncti	75									
	$R_{\theta_{J-L}}$	07 W	Between juncti	on and terminal	27								

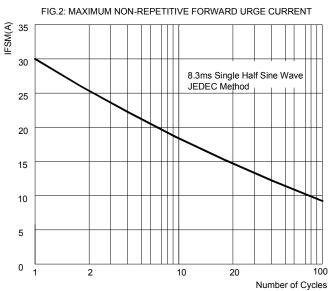
Notes:

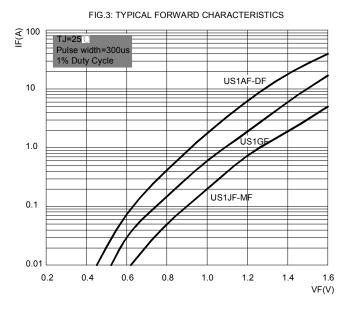
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



Typical Characteristics







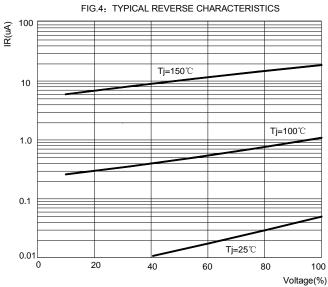
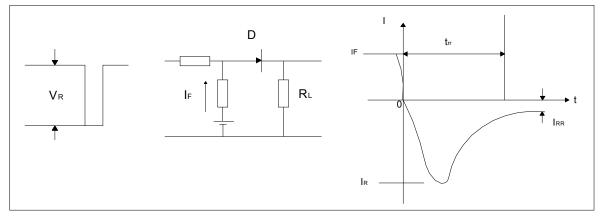
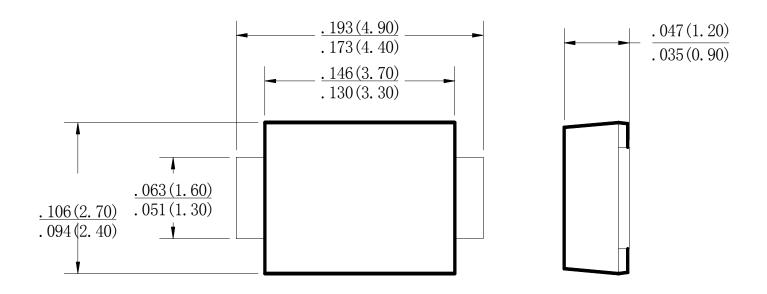


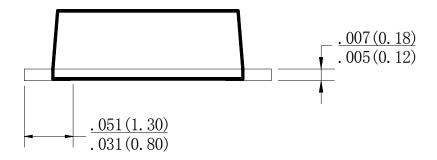
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





SMAF Package Outline Dimensions





Dimensions in inches and (millimeters)



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