

Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)				
ES1AF-ES1JF	SMAF	ES1xF	10000				



SMAF

x: From A-M

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

Item	Symbol	Unit	Test Conditions	ES1								
			rest conditions	AF	BF	CF	DF	EF	GF	HF	JF	
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	150	200	300	400	500	600	
Maximum RMS Voltage	V _{RNS}	٧		35	70	105	140	210	280	350	420	
Average Forward Current	I _{F(AV)}	Α	60Hz Half-sine wave, Resistance load, T _L =120°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}	ပ္		-55 ~ +150								

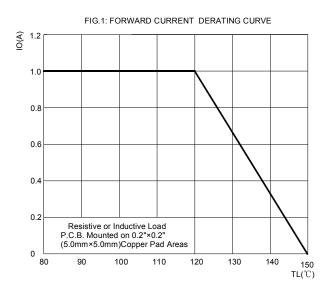
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

					ES1							
Item	Symb ol	Unit	Test Condition		AF	BF	CF	DF	EF	GF	HF	JF
Peak Forward Voltage	V _F	V	I _F =1.0A			0.95			1.25		1.70	
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1	35								
Peak Reverse Current	I _{RRM1}			Ta =25°C	5							
	I _{RRM2}	μA V _{RM} =V _{RRM}	Ta =100°C	100								
Thermal Resistance(Typical)	$R_{\theta J-A}$	0000	Between junctio	n and ambient	85							
	$R_{\theta J-L}$	°C/W	Between junctio	35								

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



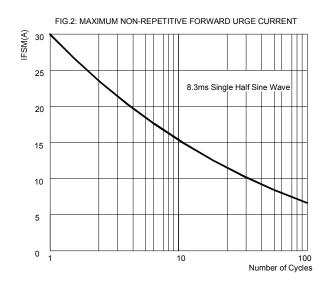


FIG.3: TYPICAL FORWARD CHARACTERISTICS

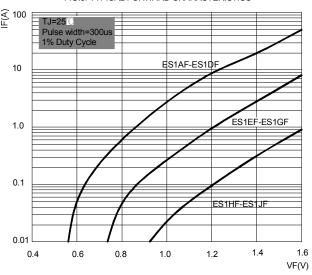


FIG.4: TYPICAL REVERSE CHARACTERISTICS

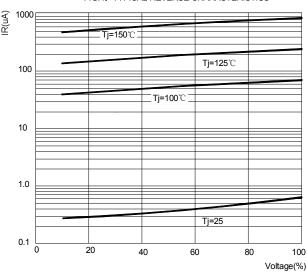
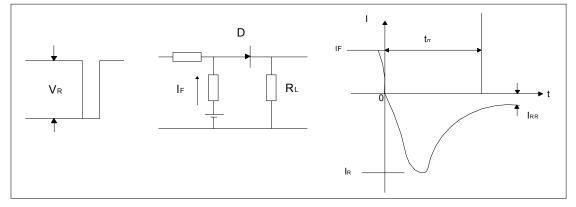
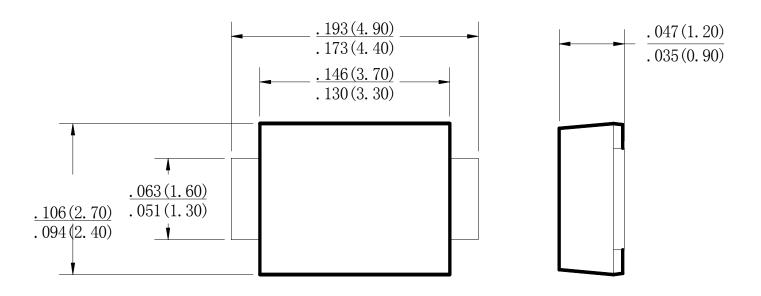
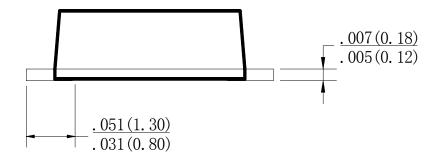


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



SMAF Package Outline Dimensions





Dimensions in inches and (millimeters)



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