

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	ES1 * F	10000			



SMAF



★:From A-M

MAXIMUM RATINGS (Ta=25 unless otherwise noted)

ltem	Symbol	Unit	Test Conditions	ES1								
			Test 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 _{RMS}	V		35	70	105	140	210	280	350	420	
Average Forward Current	I _{F(AV)}	А	60Hz Half-sine wave, Resistance load, T_L =120 °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}	°C		-55 ~ +150								

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

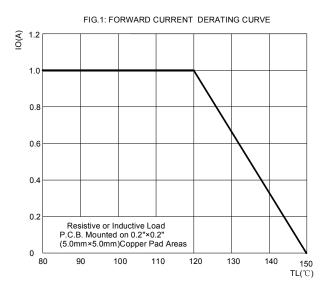
14.0.00	Cumhal	11	Test Cor	ES1									
ltem	Symbol	Unit	Test Condition		AF	BF	CF	DF	EF	GF	HF	JF	
Peak Forward Voltage	$V_{\rm F}$	V	I _F =1.0A			0	.95		1.25			1.70	
Maximum reverse recovery time	tr	ns	I _F =0.5A,I _R =	35									
Peak Reverse Current	I _{RRM1}			Ta =25℃	5								
	I _{RRM2}	μA V _{RM} =V _{RRM}	Ta=100℃	100									
Thermal	$R_{ extsf{ heta}J extsf{-}A}$		Between junctio	t 85									
Resistance(Typical)	R _{θJ-L}	°C/W	Between junction and terminal			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



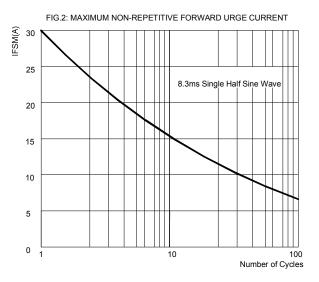


FIG.3: TYPICAL FORWARD CHARACTERISTICS

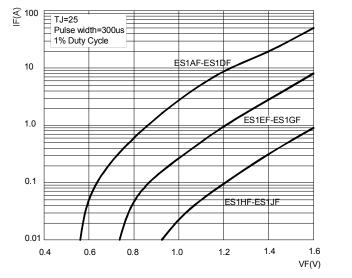


FIG.4: TYPICAL REVERSE CHARACTERISTICS

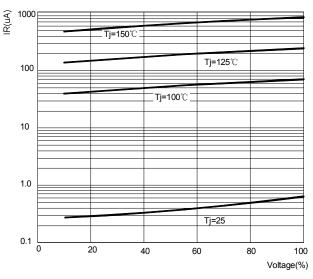
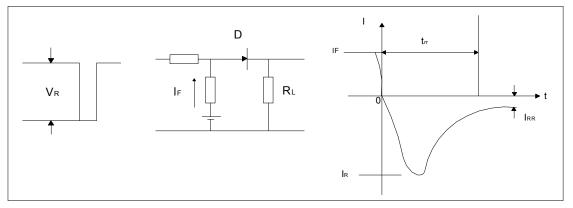
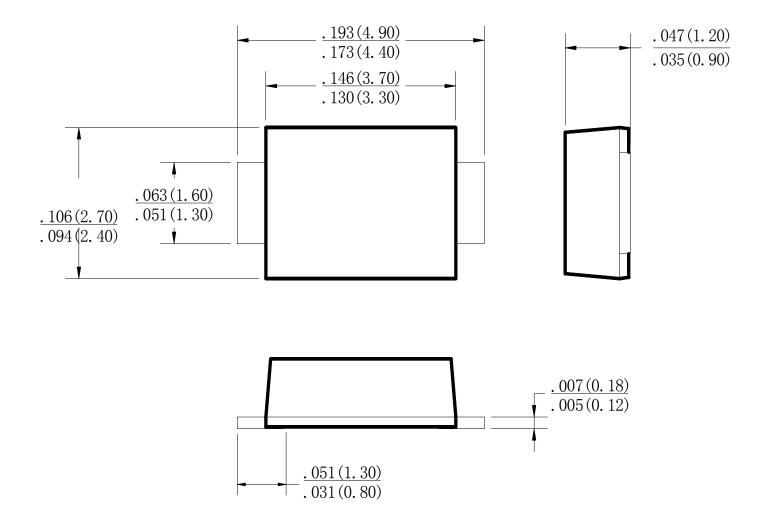


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





SMAF Package Outline Dimensions



Dimensions in inches and (millimeters)



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