



SURFACE MOUNT SUPERFAST RECTIFIER

VOLTAGE 50~600 Volt

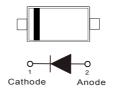
CURRENT 1 Ampere

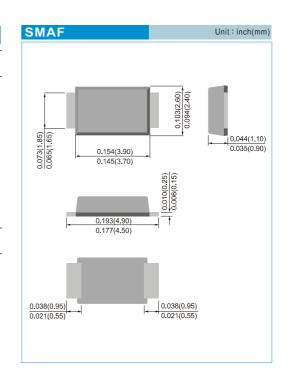
FEATURES

- For surface mounted applications in order to optimize board space
- · Easy pick and place
- · Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Superfast recovery times for high efficiency
- · Glass Passivated Chip Junction
- · Ultra Thin Profile Package for Space Constrained Utilization
- · Package suitable for Automated Handling
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SMAF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- · Approx. Weight: 0.00116 ounces, 0.0328 grams





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER		ES1AF	ES1BF	ES1CF	ES1DF	ES1EF	ES1GF	ES1JF	UNITS
Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	٧
RMS Voltage		35	70	105	140	210	280	420	V
DC Blocking Voltage	V _R	50	100	150	200	300	400	600	V
Average Forward Current	I _{F(AV)}	1					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30						А	
Forward Voltage at 1A	V _F	0.95 1.25 1.7					1.7	V	
DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	I _R	1				μΑ			
Typical Junction Capacitance VR=4V,1MHz	CJ	15					pF		
Typical Thermal Resistance, Junction to Lead (Note 1) Junction to Ambient (Note 2)	$R_{_{\theta JA}}$	24 150							°C / W
Reverse Recovery Time at Ir=0.5A,IR=1A,IRR=0.25A		35						nS	
Operating Junction Temperature and Storage Temperature Range	T_J,T_STG	-55 to +150						°C	

NOTES: 1. Mounted on an FR4 PCB, single-sided copper, with 48cm² copper pad area

2. Mounted on an FR4 PCB, single-sided copper, mini pad.





RATING AND CHARACTERISTIC CURVES

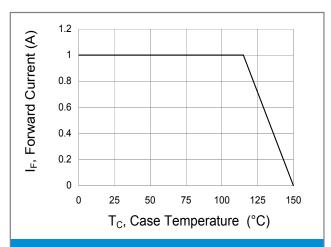


Fig.1 Forward Current Derating Curve

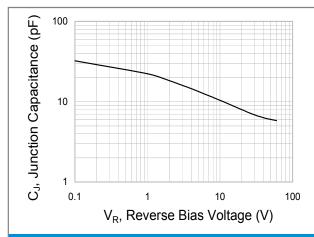


Fig.2 Typical Junction Capacitance

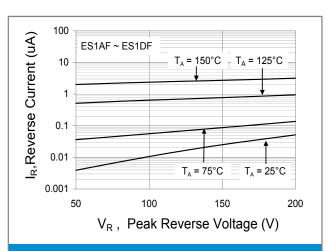


Fig.3 Typical Reverse Characteristics

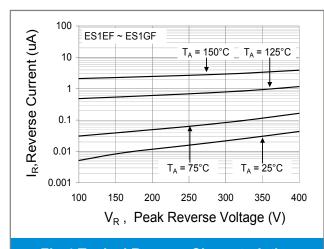


Fig.4 Typical Reverse Characteristics

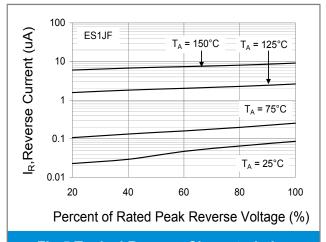


Fig.5 Typical Reverse Characteristics

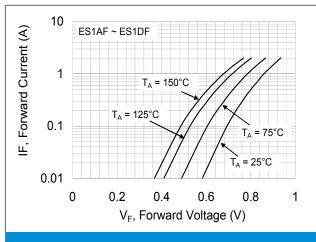


Fig.6 Typical Forward Characteristics





RATING AND CHARACTERISTIC CURVES

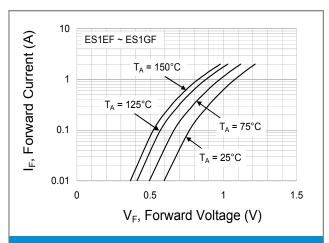


Fig.7 Typical Forward Characteristics

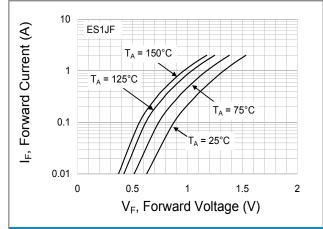
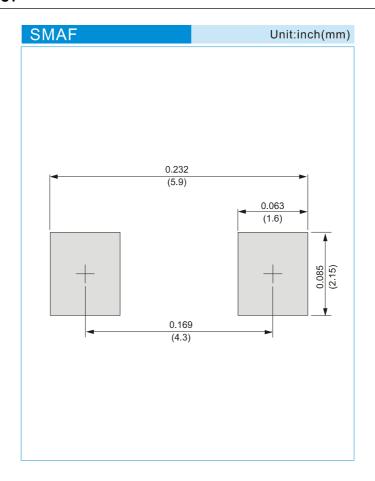


Fig.8 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

ES1AF_R1_00001 ES1AF_R2_00001

For example:



Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code			
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	Т	26mm	Х						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





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