



SUPERFAST RECOVERY RECTIFIERS

VOLTAGE 50~400 Volt CURRENT 2 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
 Flame Retardant Epoxy Molding Compound
- Exceeds environmental standard MIL-S-19500/228
- · Super fast recovery time, high voltage
- Ultra thin profile package for space constrained utilization
- · Package suitable for automated handling
- · Lead free in compliance with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SMAF Molded Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end Standard packaging : 12mm tape (EIA-481)

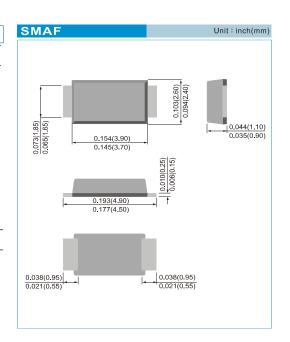
Weight: 0.0011 ounces, 0.0328 grams

Marking: Part number



Anode

Cathode



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

PARAMETER	SYMBOL	EST2AF	EST2BF	EST2CF	EST2DF	EST2EF	EST2GF	UNIT
Maximum recurrent peak reverse voltage	VRRM	50	100	150	200	300	400	V
Maximum rms voltage	VRMS	35	70	105	140	210	280	٧
Maximum dc blocking voltage	VR	50	100	150	200	300	400	V
Maximum average forward rectified current	l F(AV)	2				Α		
Peak forward surge current 8.3ms single half sine- wave superimposed on rated load	İFSM	50				Α		
Maximum forward voltage at 2A	VF	0.95					V	
Maximum dc reverse current	IR	1					μА	
Typical junction capacitance (Note 1)	Cı	30 25				25	pF	
Typical thermal resistance (Note 3) (Note 4)	Røjl Røja	20 150						°C/W
Maximum reverse recovery time (Note 2)	TRR	25						nS
Operating junction temperature range	TJ	-55 to + 150				°C		
Storage temperature range	e range TsTG -55 to + 150				°C			

Note:1.Measured at 1 MHz and Applied Reverse Voltage of 4 Volts.

- 2.Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Recover to 0.25A.
- 3.Mounted on a FR4 PCB, single-sided copper, with 10cm*10cm copper pad area
- 4. Mounted on a FR4 PCB, single-sided copper, mini pad.





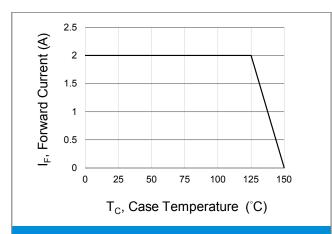


Fig.1 Forward Current Derating Curve

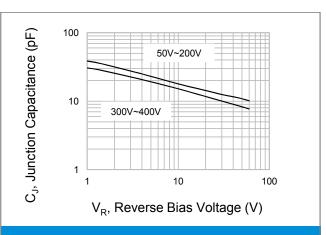


Fig.2 Typical Junction Capacitance

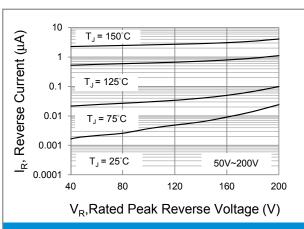


Fig.3 Typical Reverse Characteristics

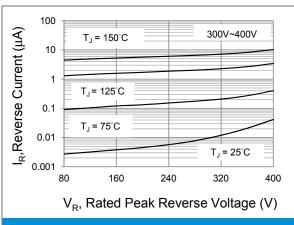


Fig.4 Typical Reverse Characteristics

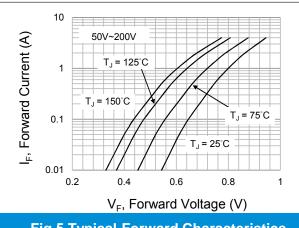


Fig.5 Typical Forward Characteristics

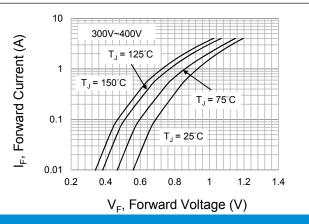
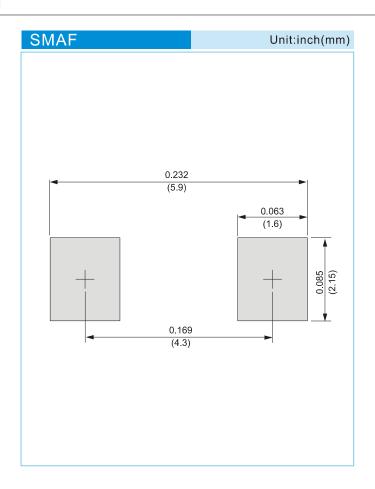


Fig.6 Typical Forward Characteristics





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

EST2AF_R1_00001 EST2AF_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	X					
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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