PANJIT SEMI CONDUCTOR

EST2AF SERIES

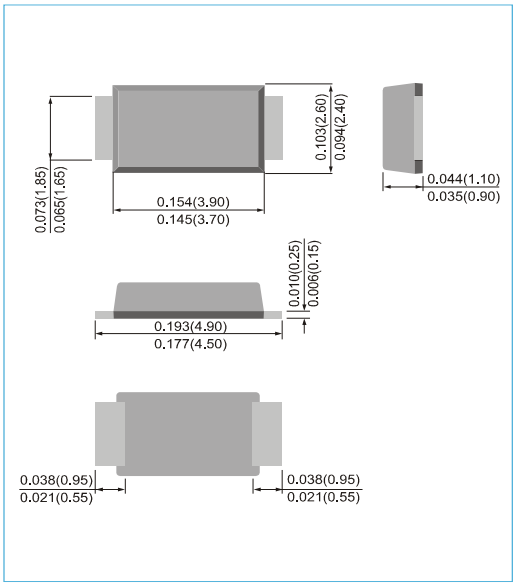
SUPERFAST RECOVERY RECTIFIERS

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)

SMAF Unit : inch(mm)



MECHANICAL DATA

Case : SMAF Molded Plastic

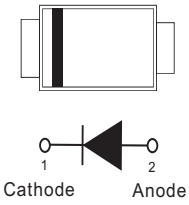
Terminals : Solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

Standard packaging : 12mm tape (EIA-481)

Weight : 0.0011 ounces, 0.0328 grams

Marking : Part number



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

PARAMETER		SYMBOL	EST2AF	EST2BF	EST2CF	EST2DF	EST2EF	EST2GF	UNIT
Maximum recurrent peak reverse voltage		V_{RRM}	50	100	150	200	300	400	V
Maximum rms voltage		V_{RMS}	35	70	105	140	210	280	V
Maximum dc blocking voltage		V_R	50	100	150	200	300	400	V
Maximum average forward rectified current		$I_{F(AV)}$	2						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	50						A
Maximum forward voltage at 2A		V_F	0.95				1.25		V
Maximum dc reverse current		I_R	1						μA
Typical junction capacitance	(Note 1)	C_J	30				25		pF
Typical thermal resistance	(Note 3) (Note 4)	$R_{\Theta JL}$ $R_{\Theta JA}$	20 150						°C/W
Maximum reverse recovery time	(Note 2)	T_{RR}	25						nS
Operating junction temperature range		T_J	-55 to + 150						°C
Storage temperature range		T_{STG}	-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.

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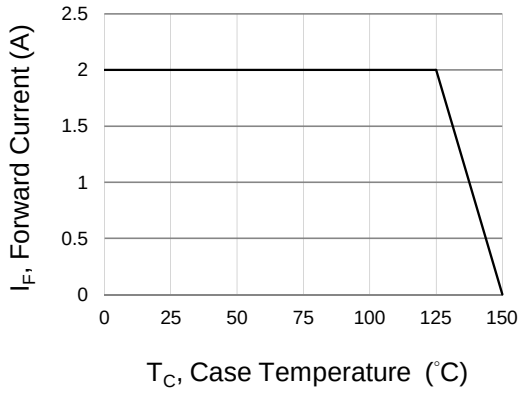


Fig.1 Forward Current Derating Curve

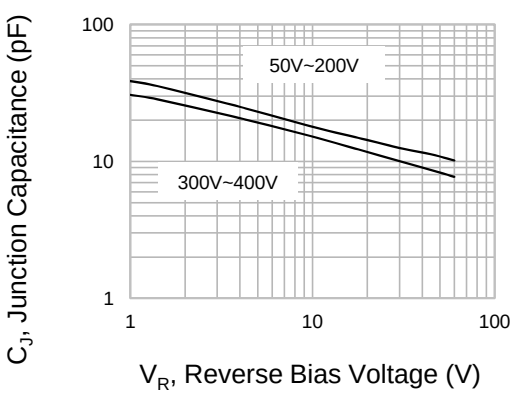


Fig.2 Typical Junction Capacitance

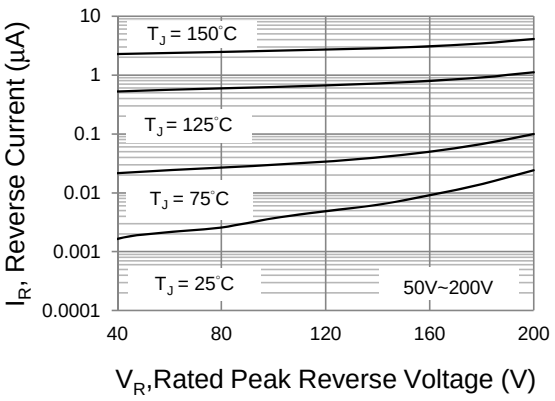


Fig.3 Typical Reverse Characteristics

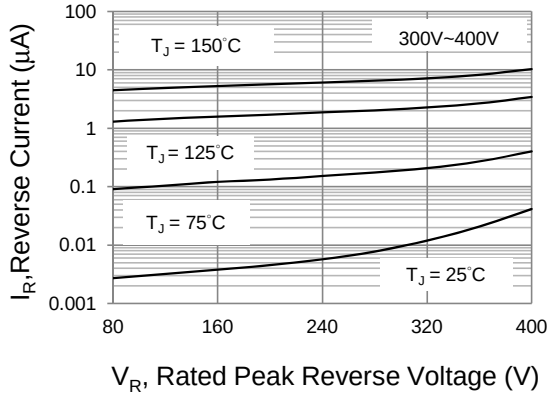


Fig.4 Typical Reverse Characteristics

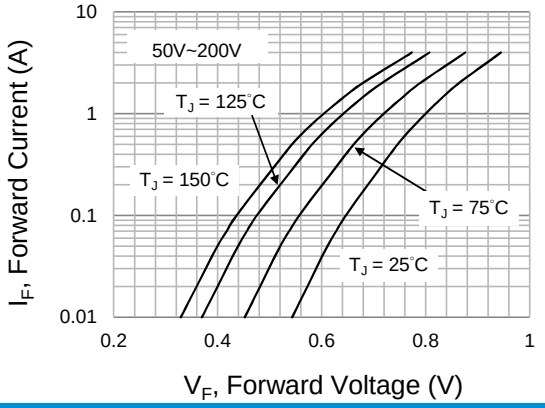


Fig.5 Typical Forward Characteristics

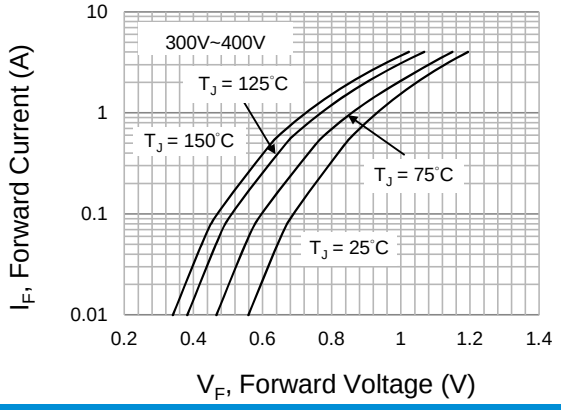
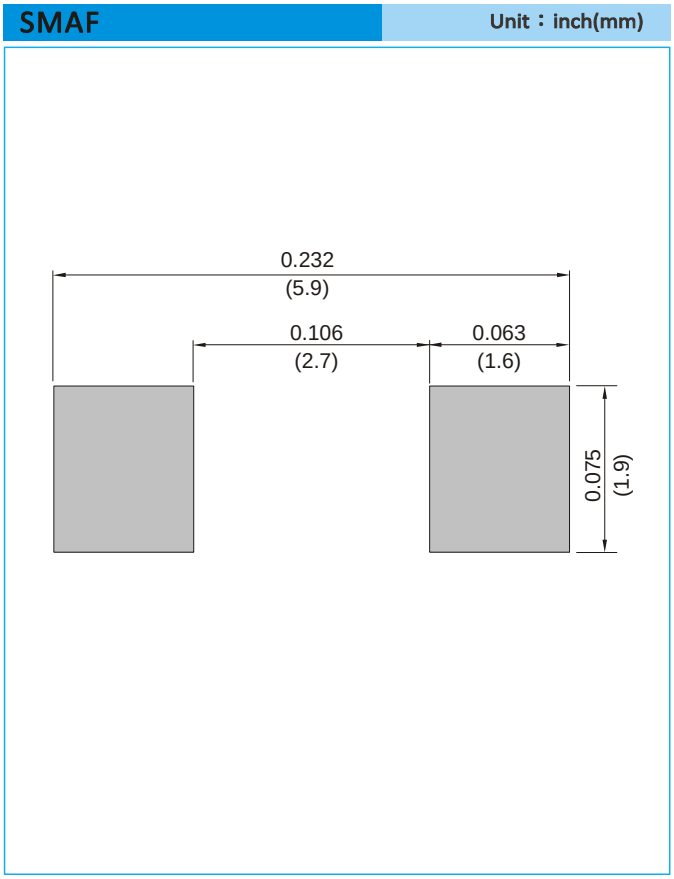


Fig.6 Typical Forward Characteristics

EST2AF SERIES

MOUNTING PAD LAYOUT

SMAF Unit：inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 10K per 13" plastic Reel

  T/R - 3K per 7" plastic Reel

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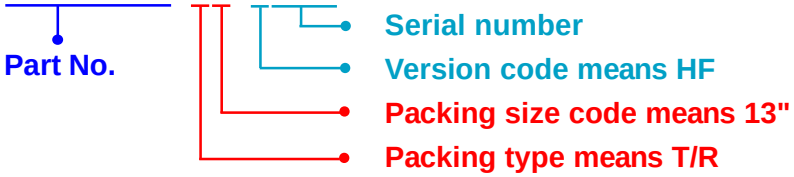
Part No_packing code_Version

EST2AF_R1_00001

EST2AF_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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