

SUPERFAST RECOVERY RECTIFIERS

SUPERFAST	RECOVERY REC	TIFIERS			
VOLTAGE	400 Volts	CURRENT	1 Amperes	SMAF	Unit : inch(mm)
FEATURES					
Flammability C	ge has Underwriters Classification 94V-O ant Epoxy Molding Co				0.103(2.60)
• Exceeds envi	ronmental standards	of MIL-S-19500/2	228		0.09
Super fast red	covery times, high vo	oltage		(<u>69</u> 1)) (<u>91</u>)) (<u>91</u>	0.044(1.10)
 Ultra Thin Profile Package for Space Constrained Utilization 			0.154(3.90 0.145(3.70	/	
 Package suita 	ble for Automated H	andling		010	<u> </u>
• Lead free in c	omply with EU RoHS	2011/65/EU dired	ctives		0.010(0.25)
Green molding compound as per IEC61249 Std (Halogen Free)			. <u>0.193(4.90</u> 0.177(4.50		
MECHANICAL	DATA				_
Case : SMAF Mol	lded Plastic				
Terminals : Solde	rable per MIL-STD-7	50, Method 2026			
Polarity : Color band denotes cathode end			0.038(0.95) 0.021(0.55)	0.038(0.95) 0.021(0.55)	

Polarity : Color band denotes cathode end

Standard packaging : 12mm tape (EIA-481)

Weight : 0.0011 ounces, 0.0328 grams

Marking : EST1GF

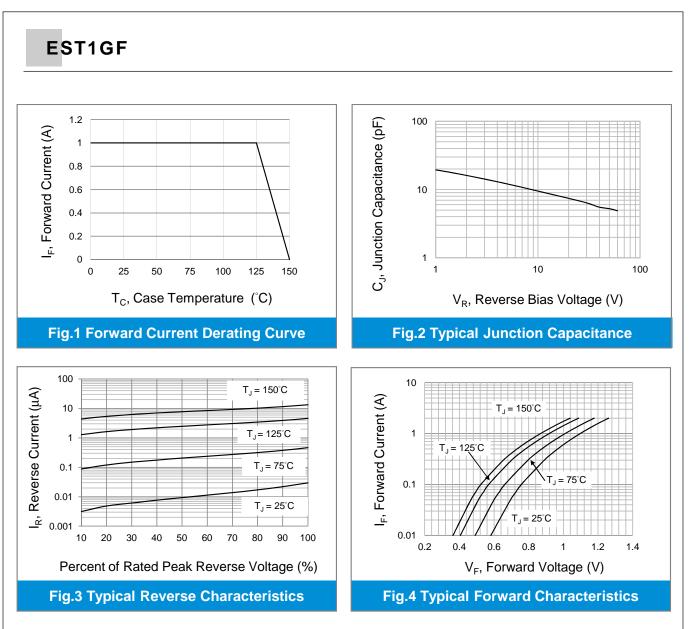
MAXIMUM RATINGS(TA=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum recurrent peak reverse voltage		Vrrm	400	V
Maximum rms voltage		Vrms	280	V
Maximum dc blocking voltage		Vr	400	V
Maximum average forward rectified current		I F(AV)	1	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		Ігѕм	30	А
Maximum forward voltage at 1A		VF	1.25	V
Maximum dc reverse current		l r	1	μА
Typical junction capacitance Measured at 1MHz and applied V _R =4V		CJ	16	pF
Typical thermal resistance	(Note 1) (Note 2)	Røjl Røja	20 150	°C/W
Maximum reverse recovery time	(Note 3)	Trr	25	nS
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note:1.Mounted on an FR4 PCB, single-sided copper, with 100cm² copper pad area

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

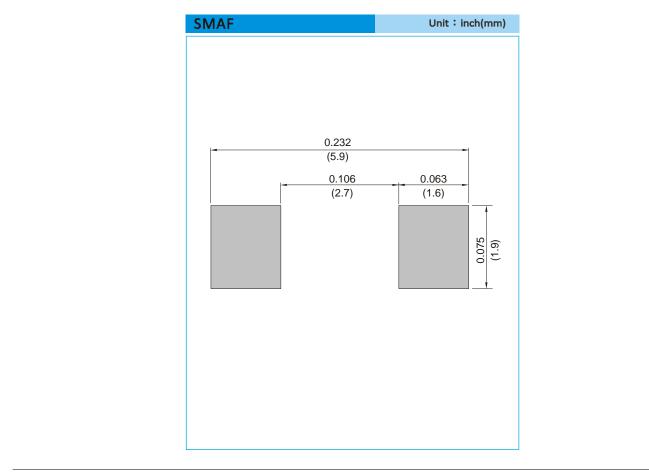
3.Reverse Recovery Test Conditions : I $_{\rm F}$ =0.5A, I $_{\rm R}$ =1A, Recover to 0.25A.





EST1GF

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R 10K per 13" plastic Reel
 - T/R 3K per 7" plastic Reel



EST1GF								
Part No_packing code EST1GF_R1_00001 EST1GF_R2_00001	_Versi	on						
For example : RB500V-40_R2_00001 Part No. Version code means HF Packing size code means 13" Packing type means T/R								
Packing Code XX				Version Code XXXXXX				
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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EST1GF



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