

SURFACE MOUNT SUPERFAST RECTIFIER

VOLTAGE

ASI RECHIFIER

300~400 Volt CURRENT 3 Ampere

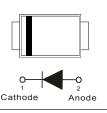
oere SM

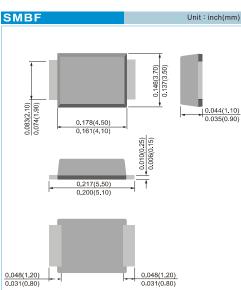
FEATURES

- For surface mounted applications in order to optimize board space
- · High temperature metallurgically bonded-no compression
- · Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated 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: SMBF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0018 ounces, 0.05 grams
- Polarity: Color band denotes cathode end





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

PARAMETER	SYMBOL	ER3EAF ER3G		UNITS	
Recurrent Peak Reverse Voltage	V _{RRM}	300	400	v	
RMS Voltage	V _{RMS}	210	280	v	
DC Blocking Voltage	V _R	300	400	v	
Average Forward Current		I _{F(AV)}	3		А
Peak Forward Surge Current : 8.3ms sin superimposed on rated load	I _{fsm}	80	А		
Forward Voltage at 3A		V _F	1.2	V	
DC Reverse Current at Rated DC Blocki	I _R	1	μA		
Reverse Recovery Time (Notes 2)	t _{rr}	3	ns		
Typical Junction Capacitance (Notes 1)		C	40		рF
Typical Thermal Resistance	(Notes 3) (Notes 4)	$R_{_{ ext{ hetaJL}}}$ $R_{_{ hetaJA}}$	20 13	°C / W	
Operating Junction Temperature and Sto	T _J ,T _{stg}	-55 to	°C		

NOTES:1.Measured at 1 MHz and Applied Reverse Voltage of 4 Volt.

- 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
- ${\small 4. Mounted \ on \ a \ FR4 \ PCB, \ single-sided \ copper, \ mini \ pad.}$



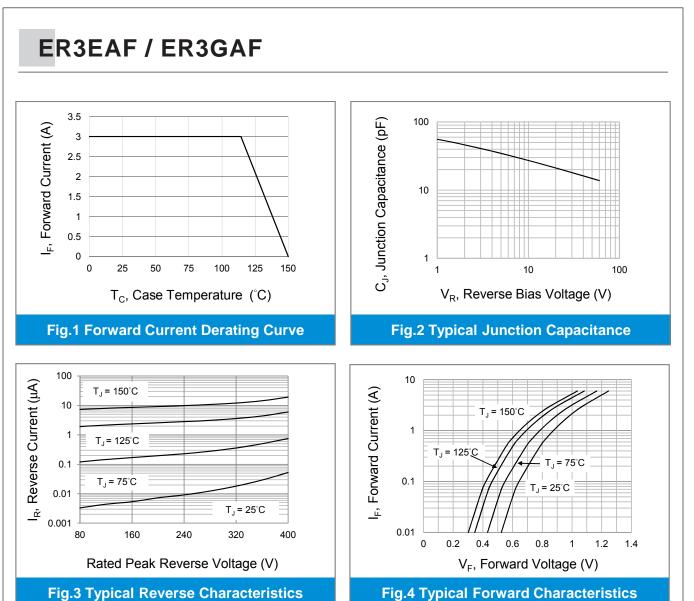
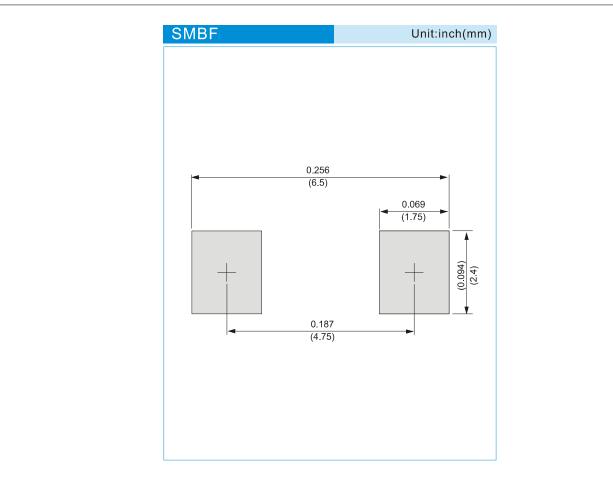


Fig.3 Typical Reverse Characteristics



MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel



ER3EAF / ER3GAF											
Part No_packing code_Version											
ER3EAF_R2_00001											
_											
For example : RB500V-40_R2_00001											
Serial number											
Ρ	Part No. Version code means HF										
			cking size code means 13' cking type means T/R								
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							
Та	ape and Reel (Right Oriented) (TRR)	S	52mm	Y							
٦	Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U							
	FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D							
		1									





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