



SURFACE MOUNT SUPERFAST RECTIFIER

300~400 Volt CURRENT

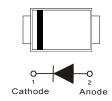
3 Ampere

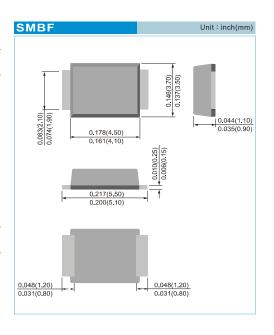
FEATURES

- · 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 ER3GAF		UNITS
Recurrent Peak Reverse Voltage	V _{RRM}	300 400		V
RMS Voltage	V _{RMS}	210	280	V
DC Blocking Voltage	V _R	300	400	٧
Average Forward Current	I _{F(AV)}	3	А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	8	А	
Forward Voltage at 3A	V _F	1.:	V	
DC Reverse Current at Rated DC Blocking Voltage	I _R		μА	
Reverse Recovery Time (Notes 2)	t _{rr}	3	ns	
Typical Junction Capacitance (Notes 1)	C _J	4	pF	
Typical Thermal Resistance (Notes 3) (Notes 4)	$R_{_{ heta JA}}$	2 13	°C / W	
Operating Junction Temperature and Storage Temperature Range	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
- 4. Mounted on a FR4 PCB, single-sided copper, mini pad.





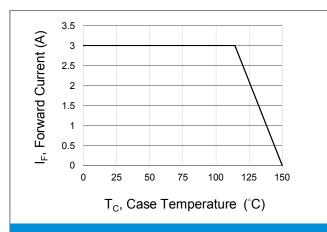


Fig.1 Forward Current Derating Curve

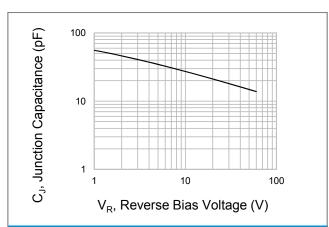


Fig.2 Typical Junction Capacitance

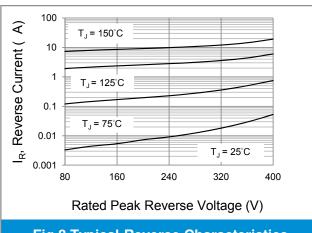


Fig.3 Typical Reverse Characteristics

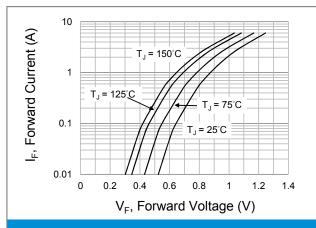
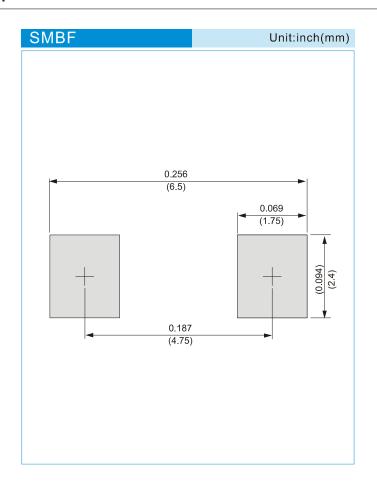


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 5K per 13" plastic Reel

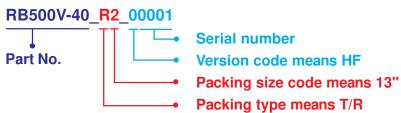




Part No_packing code_Version

ER3EAF_R2_00001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1st Code	Packing size code	2 nd Code	HF or RoHS	1st 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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