



SURFACE MOUNT SUPERFAST RECTIFIER

VOLTAGE 50~4

50~400 Volt

CURRENT

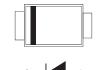
2 Ampere

FEATURES

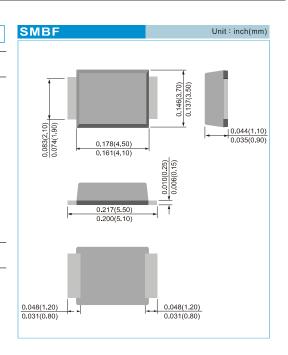
- For surface mounted applications in order to optimize board space
- High temperature metallurgically bonded-no compression
- · Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Glass passivated junction
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directives.
- 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	ERT2AF	ERT2BF	ERT2CF	ERT2DF	ERT2EF	ERT2GF	UNITS
Recurrent Peak Reverse Voltage		V _{RRM}	50	100	150	200	300	400	V
RMS Voltage		V _{RMS}	35	70	105	140	210	280	V
DC Blocking Voltage		V _R	50	100	150	200	300	400	V
Average Forward Current		I _{F(AV)}	2						А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	50						А
Forward Voltage at 2A		V _F	0.95				25	V	
DC Reverse Current at Rated DC Blocking Voltage	T _J =25°C	I _R	1			1			μА
Typical Junction Capacitance	(Note 1)	C¹	35 25			:5	pF		
Typical Thermal Resistance ,Junction to Lead (Note 3) Junction to Ambient (Note 4)		R _{⊕JL} R _{⊕JA}	20 135						°C / W
Reverse Recovery Time	(Note 2)	Т,,	25				ns		
Operating Junction Temperature and Storage Temperature Range		T _J ,T _{STG}	-55 to +150						°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.





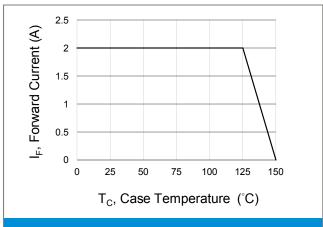


Fig.1 Forward Current Derating Curve

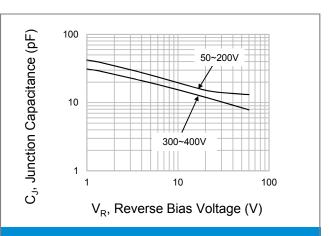


Fig.2 Typical Junction Capacitance

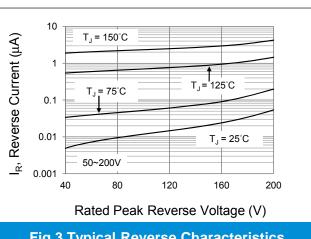


Fig.3 Typical Reverse Characteristics

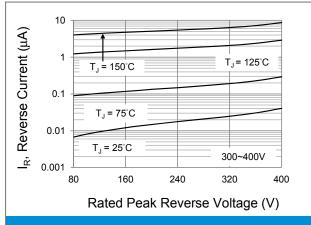


Fig.4 Typical Reverse Characteristics

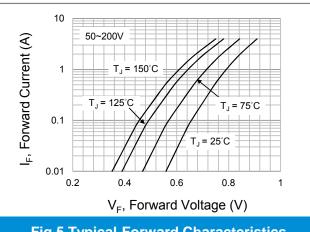


Fig.5 Typical Forward Characteristics

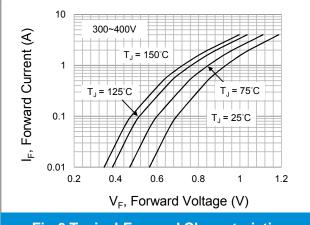


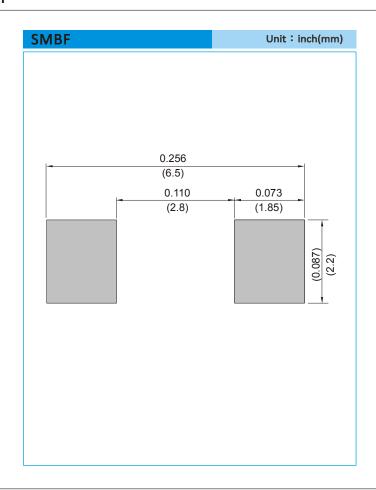
Fig.6 Typical Forward Characteristics

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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

ERT2AF_R2_00001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF Packing size code means 13" Packing 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						
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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