50~400 Volt

SURFACE MOUNT SUPERFAST RECTIFIER VOLTAGE

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
- · Hyperfast recovery time
- 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	ERT3AAF	ERT3BAF	ERT3CAF	ERT3DAF	ERT3EAF	ERT3GAF	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)}	3						A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I _{fsm}	75						A
Forward Voltage at 3A		V _F	0.95 1.25					25	v
DC Reverse Current at Rated T _j =25°C DC Blocking Voltage		I _R	1					μA	
Typical Junction Capacitance (N	lote 1)	C	50				40		pF
Typical Thermal Resistance ,Junction to Lead (Note 3) Junction to Ambient (Note 4)		${f R}_{_{ heta JL}} \ {f R}_{_{ heta JA}}$	20 135						°C / W
Reverse Recovery Time (Note 2)			25						ns
Operating Junction Temperature and Storage Temperature Range		Tj,Tstg	-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.









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MOUNTING PAD LAYOUT



ORDER INFORMATION

- · Packing information
 - T/R 5K per 13" plastic Reel



Part No_packing code_Version

ERT3AAF_R2_00001

For example :

RB500V-40_R2_00001



- 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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