

SUPERFAST RECOVERY RECTIFIERS

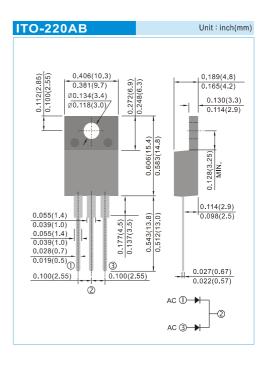
VOLTAGE	50 to 600 Volt	CURRENT	10 Ampere			
FEATURES						
	age has Underwriters L Classification 94V-O.	aboratory				
Flame Retardant Epoxy Molding Compound.						

VOLTAGE 50 to 600 Volt CURRENT

- · Low power loss, high efficiency.
- · Low forward voltge, high current capability
- · High surge capacity.
- · Super fast recovery times, high voltage.
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- · Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: ITO-220AB Molded plastic
- · Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Standard packaging: Any
- · Weight: 0.056 ounces, 1.6 grams.



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	ER1000FCT	ER1001FCT	ER1001AFCT	ER1002FCT	ER1003FCT	ER1004FCT	ER1006FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	v
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	v
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	v
Maximum Average Forward Current at T _c =100°C	I _{F(AV)}	10				А			
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150					А		
Maximum Forward Voltage at 5A, per element	V _F		0.95 1.3 1.7		1.7	V			
Maximum DC Reverse Current at Rated DC Blocking T_=25°C Voltage T_=100°C	I _R	1 500				μA			
Maximum Reverse Recovery Time (Note 2)	t _{rr}				35				ns
Typical Junction Capacitance (Note 1)	C'	C, 62			рF				
Typical Thermal Resistance	R _{ejc}	3			°C / W				
Operating Junction and Storage Temperature Range	Τ _J ,Τ _{stg}	-55 to +150			°C				

NOTES

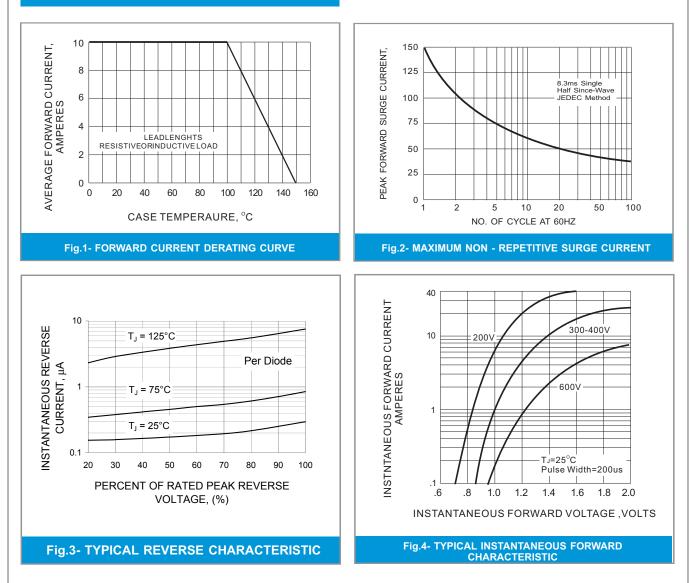
1. Measured at 1 MHz and applied reverse voltage of 4 VDC.

2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, Irr=0.25A.

3. Both Bonding and Chip structure are available.



RATING AND CHARACTERISTIC CURVES







Part No_packing code_Version

ER1000FCT_T0_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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