

ER2000CT~ER2006CT

ISOLATION SUPERFAST RECOVERY RECTIFIER

VOLTAGE 50 to 600 Volt CUR

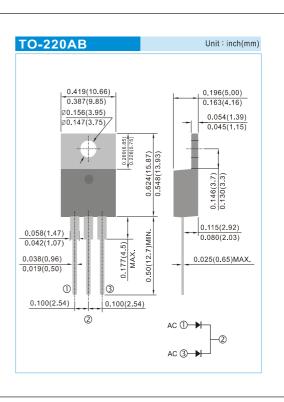
20 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- · Low forward voltage, high current capability
- High surge capacity.
- Super fast recovery times, high voltage.
- · Epitaxial chip construction.
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: TO-220AB Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.067 ounces, 1.89 grams.



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICSS

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		ER2000CT	ER2001CT	ER2001ACT	ER2002CT	ER2003CT	ER2004CT	ER2006CT	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	v
Maximum Average Forward Current at T _c =90°C	l _{F(AV)}	20				А			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150					A		
Maximum Forward Voltage at 10A	V _F	0.95			1.3		1.7	V	
Maximum DC Reverse Current at Rated DC Blocking T_{j} =25°C Voltage T_{j} =100°C	l _R	1 500					μΑ		
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35 50			ns				
Typical Junction Capacitance (Note 1)	C ¹	85				pF			
Typical thermal Resistance (Note 3)	R _{eJc}	3				°C / W			
Operating Junction and Storage Temperature Range	T_J,T _{STG}	-50 to +150				°C			

NOTES :

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

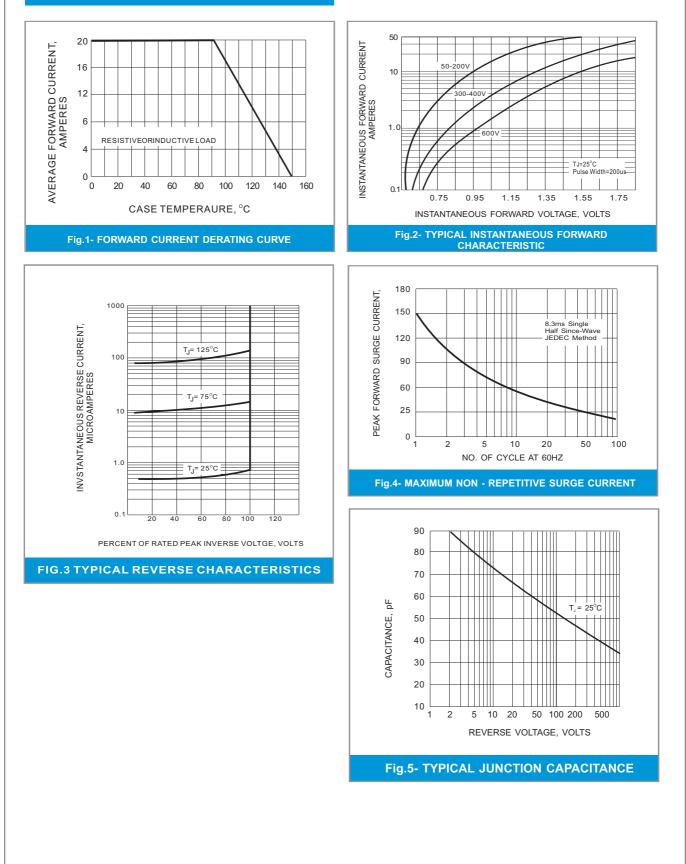
2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, Irr=0.25A.

3. Both Bonding and Chip structure are available.



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RATING AND CHARACTERISTIC CURVES





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Part No_packing code ER2000CT_T0_00001	_Versi	on							
For example : RB500V-40_R2_0000	1								
Part No.	- Ver - Pa	rial number rsion 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~5th Code}			
Tape and Ammunition Box (T/B)	A	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						
		PANASERT T/B CATHODE DOWN	D						

(PBCD)

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FORMING

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