

ER2000FCT~ER2006FCT

ISOLATION SUPERFAST RECOVERY RECTIFIER

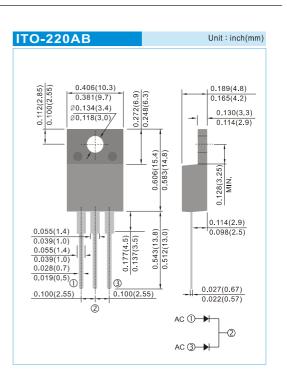
VOLTAGE 50 to 600 Volt CURRENT 20 Ampere

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 2.0
- Green molding compound as per IEC 61249 standard

MECHANICALDATA

- 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 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	SYMBOL	ER2000FCT	ER2001FCT	ER2001AFCT	ER2002FCT	ER2003FCT	ER2004FCT	ER2006FCT	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	I _{F(AV)}	20						A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	ave L _{FSM} 150						A		
Maximum Forward Voltage at 10A		0.95 1.3			.3	1.7	V		
Maximum DC Reverse Current at Rated DC Blocking T_j = 25 °C Voltage T_j = 100 °C	I _R	1 500						μA	
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)	$R_{_{\!\!\! ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext{$	3					°C / W		
Operating Junction and Storage Temperature Range	T_J,T _{STG}	-50 to +150					°C		

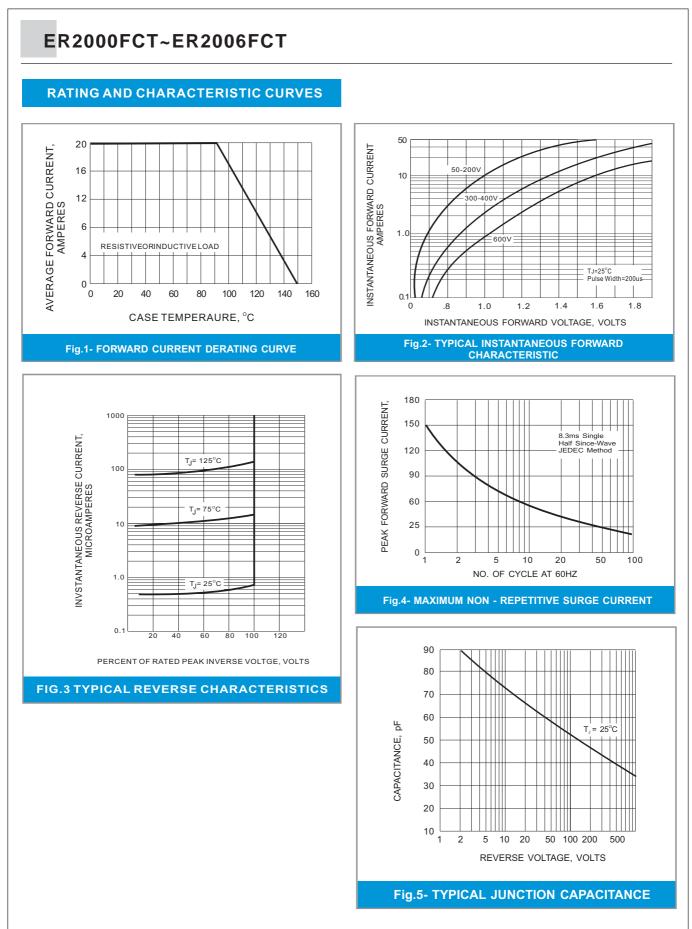
NOTES:

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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Part No_packing code_Version

ER2000FCT_T0_00001

For example :

RB500V-40_R2_00001





• 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)	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					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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