

ER1000FCT~ER1006FCT

SUPERFAST RECOVERY RECTIFIERS

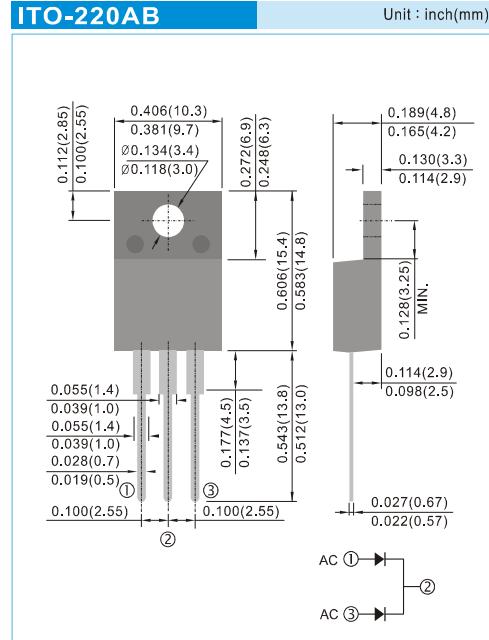
VOLTAGE 50 to 600 Volt **CURRENT** 10 Ampere

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.
- 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 $T_c = 100^\circ C$	$I_{F(AV)}$					10			A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}					150			A
Maximum Forward Voltage at 5A, per element	V_F			0.95			1.3	1.7	V
Maximum DC Reverse Current at Rated DC Blocking $T_j=25^\circ C$ $T_j=100^\circ C$	I_R				1 500				μA
Maximum Reverse Recovery Time (Note 2)	t_{rr}				35				ns
Typical Junction Capacitance (Note 1)	C_J				62				pF
Typical Thermal Resistance	$R_{\theta JC}$				3				$^\circ C / W$
Operating Junction and Storage Temperature Range	T_j, T_{STG}				-55 to +150				$^\circ C$

NOTES

- Measured at 1 MHz and applied reverse voltage of 4 VDC.
- Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.
- Both Bonding and Chip structure are available.

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RATING AND CHARACTERISTIC CURVES

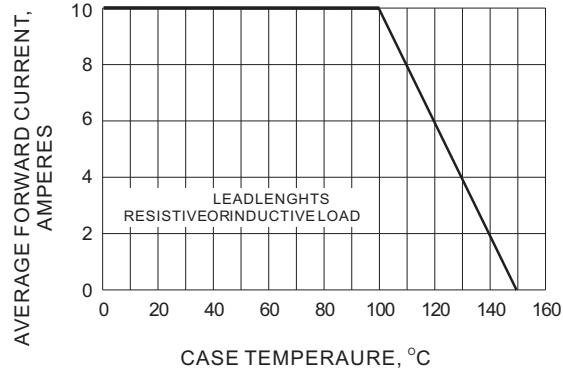


Fig.1- FORWARD CURRENT DERATING CURVE

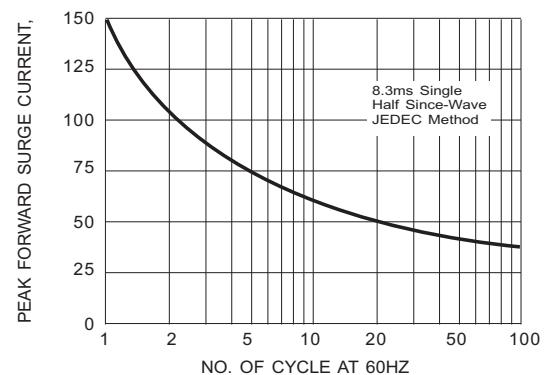


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

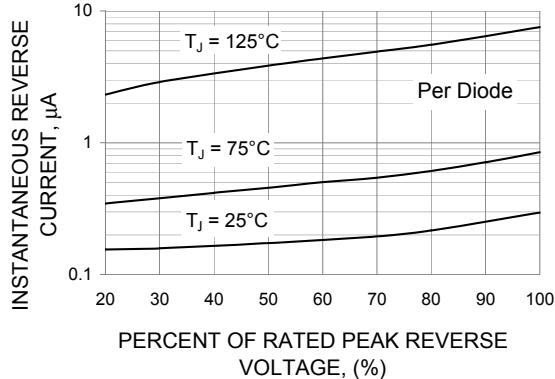


Fig.3- TYPICAL REVERSE CHARACTERISTIC

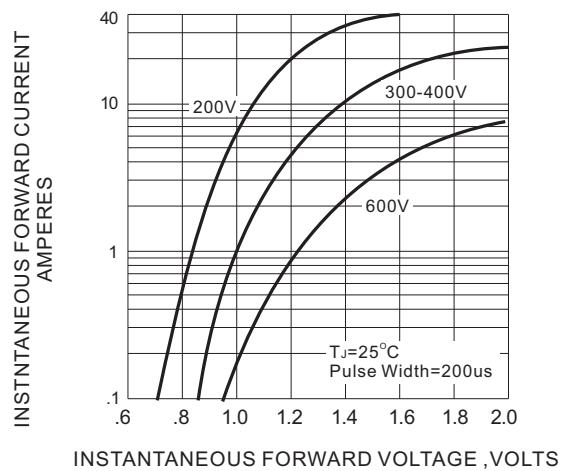


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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