



SUPERFAST RECOVERY RECTIFIERS

VOLTAGE 200 Volt CURRENT 8 Ampere

FEATURES

- Hyperfast recovery time.
- Epitaxial construction.
- · Low forward voltage, high current capability.
- · Hermetically sealed.
- · Low leakage.
- High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: Molded plastic, TO-220AC, ITO-220AC
- Terminals: Solderable to MIL-STD-750, Method 2026
- Polarity: As marking
- Marking: Part number
- TO-220AC Weight: 0.067 ounces, 1.89 grams.
- ITO-220AC Weight: 0.055 ounces, 1.56 grams.

ERT802 TO-220AC ERT802F ITO-220AC

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER		SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	200	V
Maximum RMS Voltage		V _{RMS}	140	V
Maximum DC Blocking Voltage		V _{DC}	200	V
Maximum Average Forward Current		I _{F(AV)}	8	А
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	125	А
Maximum Forward Voltage at 8A		V _F	0.95	V
Maximum DC Reverse Current at Rated DC Blocking Voltage		I _R	1	μА
Maximum Reverse Recovery Time (Note 2)		t _{rr}	25	ns
Typical Junction Capacitance (Note 1)		C _J	75	pF
Typical Thermal Resistance (Note 3)	TO-220AC ITO-220AC	R _{eJC}	1.5 5	°C / W
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55 to +150	°C

NOTES

- 1. Measured at 1 MHz and Applied Reverse Voltage of 4 Volts.
- 2. Reverse Recovery Tset Conditions: I_F=0.5A,I_R=-1A,Irr=-0.25A





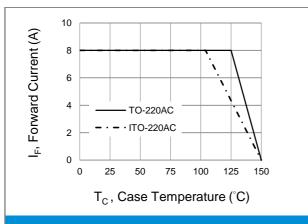


Fig.1 Forward Current Derating Curve

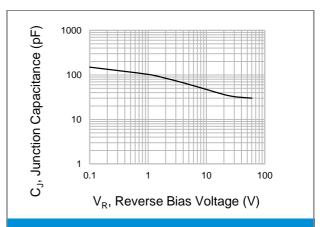


Fig.2 Typical Junction Capacitance

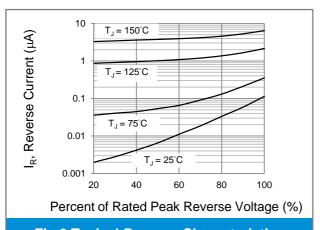


Fig.3 Typical Reverse Characteristics

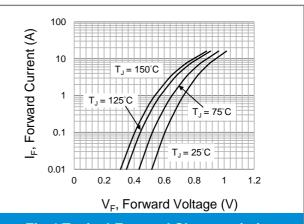
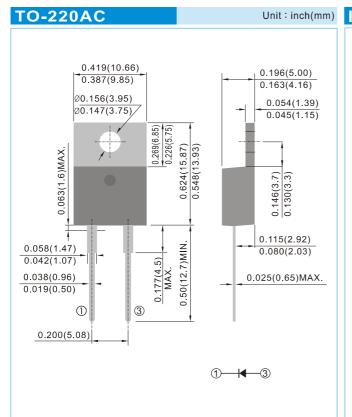
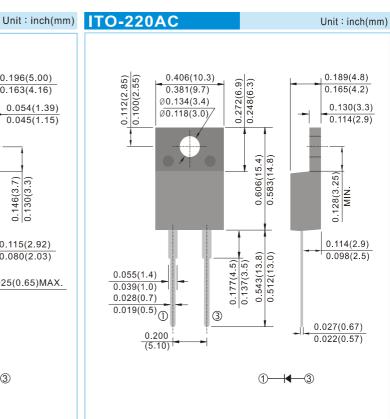


Fig.4 Typical Forward Characteristics













Part No_packing code_Version

ERT802_T0_00001 ERT802F_T0_00001

For example:



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st 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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