



SUPERFAST RECOVERY RECTIFIERS

VOLTAGE 200 Volt CURRENT 8 Ampere

FEATURES

- Hyperfast recovery time.
- Epitaxial construction.
- · Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.
- · 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

MECHANICAL DATA

- Case: Molded plastic, TO-220AC
- Terminals: Solderable to MIL-STD-750, Method 2026
- · Polarity: As marking
- Weight: 0.0655 ounces, 1.859 grams.

TO-220AC Unit: inch(mm) 0.419(10.66) 0.196(5.00) 0.163(4.16) Ø0.156(3.95) Ø0.147(3.75) 0.054(1.39) 0.045(1.15) 0.269(6.85) 0.624(15.87) 0.063(1.6)MAX. 0.146(3.7) 0.115(2.92) 0.080(2.03) 0.058(1.47) 0.50(12.7)MIN. 0 177(4 5) MAX 0.038(0.96) 0.025(0.65)MAX. 3 1 0.100(2.54) 0.100(2.54) ①—★─③

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	Α
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)	R _{eJC}	1.5	°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
- 3. Mounted on infinite heatsink





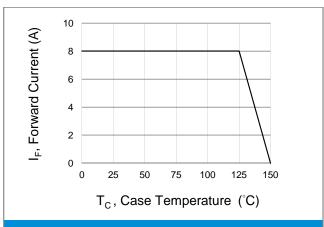


Fig.1 Forward Current Derating Curve

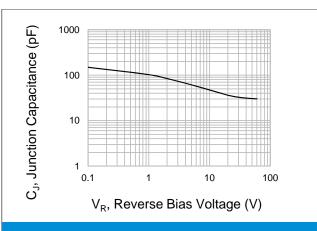


Fig.2 Typical Junction Capacitance

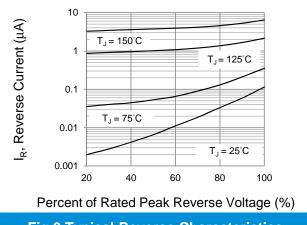


Fig.3 Typical Reverse Characteristics

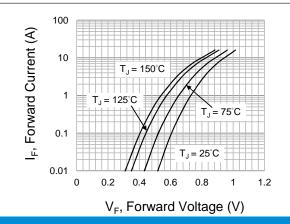


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

ERT802_T0_00001 ERT802_T0_10001

For example:



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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