



SUPERFAST RECOVERY RECTIFIERS

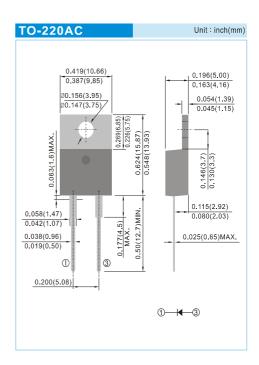
VOLTAGE 50 to 600 Volt CURRENT 10 Ampere

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: TO-220AC 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 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	ER1000	ER1001	ER1001A	ER1002	ER1003	ER1004	ER1006	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	٧
Maximum Average Forward Current at T _C =100°C	I _{F(AV)}	10						А	
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150						А	
Maximum Forward Voltage at 10A, per element	V _F	0.95			1.3		1.7	٧	
Maximum DC Reverse Current at Rated DC Blocking $T_J=25^{\circ}C$ Voltage $T_J=100^{\circ}C$	I _R	1 500						μА	
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35			50			ns	
Typical Junction Capacitance (Note 1)	C	62						pF	
Typical Thermal Resistance	R _{eJC}	3						°C /	
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 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

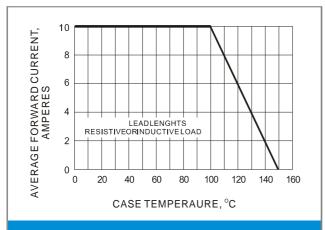


Fig.1- FORWARD CURRENT DERATING CURVE

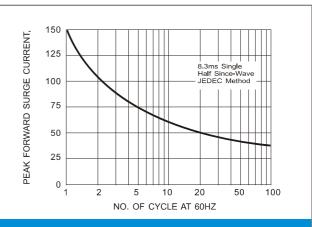


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

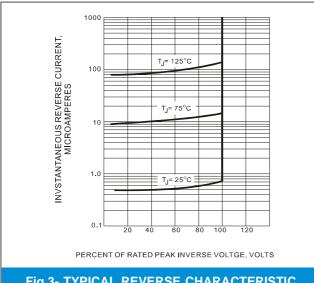


Fig.3- TYPICAL REVERSE CHARACTERISTIC

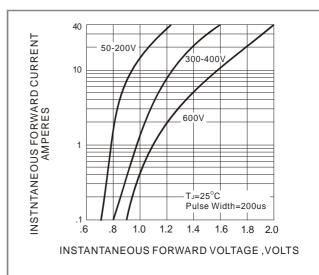


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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Part No_packing code_Version

ER1000_T0_00001

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)	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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