



ISOLATION SUPERFAST RECOVERY RECTIFIERS

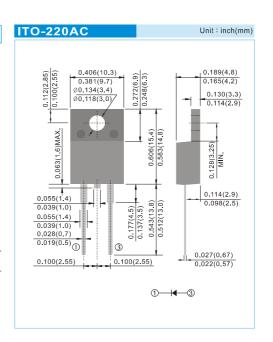
VOLTAGE 50 to 600 Volt CURRENT 10 Ampere

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
- · Glass passivation junction
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: ITO-220AC Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.Standard packaging: Any
- Standard packaging. Any
- Weight: 0.055 ounces, 1.56 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	ER1000F	ER1001F	ER1001AF	ER1002F	ER1003F	ER1004F	ER1006F	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	V
Maximum Average Forward Current at Tc=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.		1.7	V			
Maximum DC Reverse Current at Rated DC Blocking $T_{_J}$ =25°C Voltage $T_{_J}$ =100°C	I _R	1 500				μΑ			
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35 50			ns				
Typical Junction capacitance (Note 1)	C¹	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.





RATING AND CHARACTERISTIC CURVES

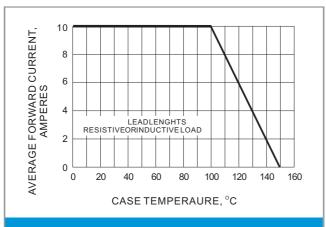


Fig.1- FORWARD CURRENT DERATING CURVE

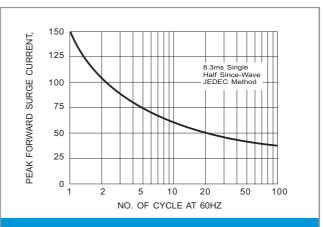


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

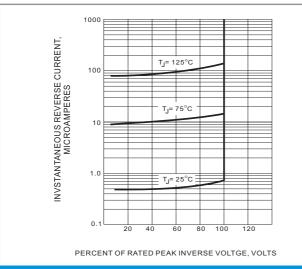


Fig.3- TYPICAL REVERSE CHARACTERISTIC

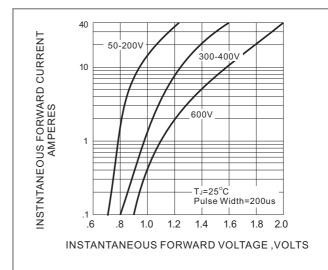


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





Part No_packing code_Version

ER1000F_T0_00001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF Packing size code means 13" 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)	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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