



ISOLATION SUPERFAST RECOVERY RECTIFIERS

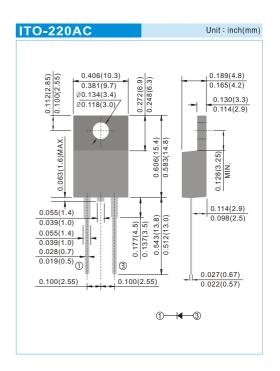
VOLTAGE 50 to 600 Volt CURRENT 10 Ampere

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 RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: ITO-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	ER1000F	ER1001F	ER1001AF	ER1002F	ER1003F	ER1004F	ER1006F	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 Tc=100°C	I _{F(AV)}	F(AV) 10				А			
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150					Α		
Maximum Forward Voltage at 10A, per element		0.95			1.3		1.7	V	
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage T_J =100°C	g J			μА					
Maximum Reverse Recovery Time (Note 2)		35			50			ns	
Typical Junction capacitance (Note 1)		62						pF	
Typical Thermal Resistance		3						°C / W	
Operating Junction and Storage Temperature Range		-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, I_r =0.25A.
- 3. Both Bonding and Chip structure are available.





RATING AND CHARACTERISTIC CURVES

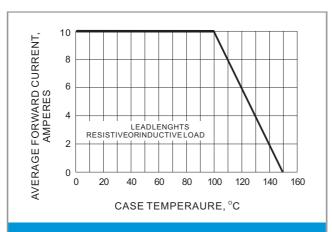


Fig.1- FORWARD CURRENT DERATING CURVE

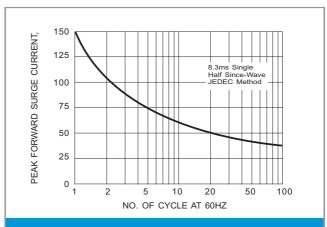


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

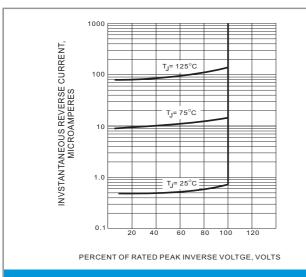


Fig.3- TYPICAL REVERSE CHARACTERISTIC

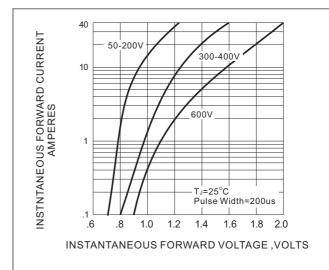


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





Part No_packing code_Version

ER1000F_T0_00001 ER1000F_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)	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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