



ULTRAFAST RECOCVEY RECTIFIERS

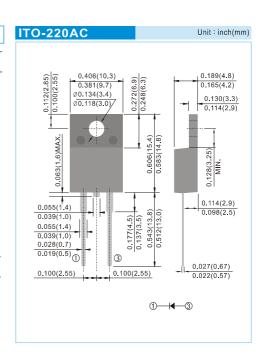
VOLTAGE50 to 800 VoltCURRENT8 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- · Low power loss, high efficiency
- Low forward voltge, high current capability
- · High surge capacity
- · Ultra 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)

MECHANCAL DATA

- Case: ITO-220AC full molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Standard packaging: Any
- Weight: 0.055 ounces, 1.56 grams.



MAXIMUM RATINGS 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	UF800F	UF801F	UF802F	UF803F	UF804F	UF806F	UF808F	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	300	400	600	800	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	V
Maximum Average Forward Rectified Current at T _c =100°C	I _{F(AV)}	8							Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125							Α
Maximum Forward Voltage at 8A	V _F	1 1.3			1.7		٧		
Maximum DC Reverse Current at Rated DC Blocking T_A =25°C Voltage T_A =125°C	I _R	1 500							μΑ
Maximum Thermal Resistance (Note 2)	R _{euc}	5						°C / W	
Typical Junction Capacitance	C _J	80 50					0	pF	
Maximum Reverse Recovery Time (Note 1)	t _{rr}	50 100				00	ns		
Operating Junction and Storage Temperature Range	T_{J},T_{STG}	-55 to +150					°C		

NOTES:

- 1. Reverse Recovery Test Conditions: I_F =0.5A, I_R =-1A, I_r =-0.25A.
- 2. Thermal resistance from Junction to ambient and from junction to lead 0.375" (9.5mm) P.C.B mounted.

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RATING AND CHARACTERISTIC CURVES

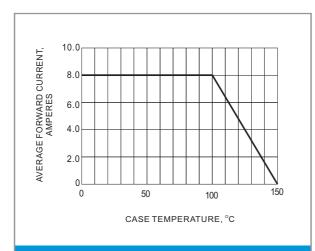


Fig.1 FORWARD CURRENT DERATING CURVE

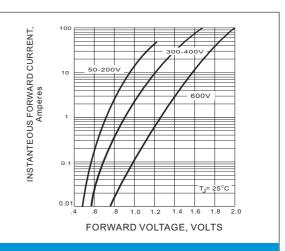


Fig.2 FORWARD CHARACTERISTICS

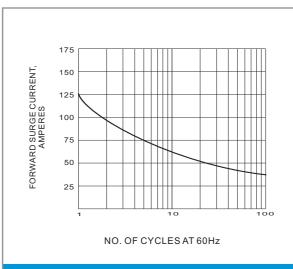


Fig.3 PEAK FORWARD SURGE CURRENT

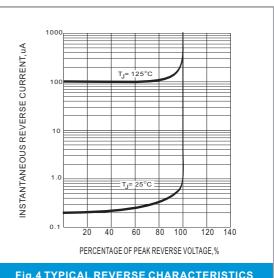
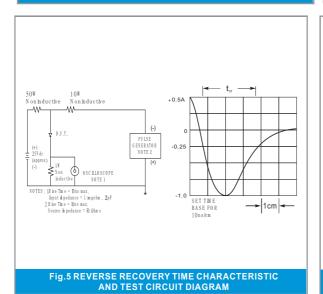


Fig.4 TYPICAL REVERSE CHARACTERISTICS



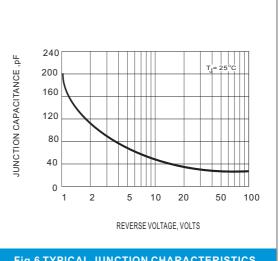


Fig. 6 TYPICAL JUNCTION CHARACTERISTICS

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Part No_packing code_Version

UF800F_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	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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