



ULTRAFAST RECOVERY RECTIFIERS

VOLTAGE 50 to 600 Volts CUR

CURRENT

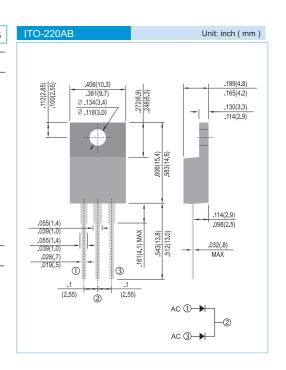
10.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency.
- · Low forwrd voltge, high current capability
- · High surge capacity.
- Ultra fast recovery time, high voltage.
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANCALDATA

- Case: ITO-220AB full molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Standard packaging: Any
- Weight: 0.0655 ounces, 1.859 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%

	1		1				
SYMBOL	UF1000FCT	UF1001FCT	UF1002FCT	UF1003FCT	UF1004FCT	UF1006FCT	UNITS
V _{RRM}	50	100	200	300	400	600	V
V _{RMS}	35	70	140	210	280	420	V
V _{DC}	50	100	200	300	400	600	V
I _{F(AV)}	10						
I _{FSM}	125						
V _F	1.0 1.30			1.70	V		
I _R	1.0 500						
C	60 40						pF
t _{rr}	50 1						ns
R _{eJC}	2						°C / W
T_J, T_{STG}	-55 to +150						°C
	V _{RMS} V _{DC} I _{F(AV)} I _{FSM} V _F I _R C _J t _{rr}	V _{RMS} 35 V _{DC} 50 I _{F(AV)} I _{FSM} V _F I _R C _J t _{rr} R _{BJC}	V _{RMS} 35 70 V _{DC} 50 100 I _{F(AV)} I _{FSM} V _F 1.0 I _R C _J t _{rr} R _{GJC}	V _{RMS} 35 70 140 V _{DC} 50 100 200 I _{F(AV)} 1 V _F 1.0 I _R 1 C _J 60 t _{rr} 50 R _{BJC} 3	V _{RMS} 35 70 140 210 V _{DC} 50 100 200 300 I _{F(AV)} 10 125 V _F 1.0 1.0 1.0 I _R 500 60 C _J 60 60 R _{eJC} 2	V _{RMS} 35 70 140 210 280 V _{DC} 50 100 200 300 400 I _{F(AV)} 10 125 V _F 1.0 1.30 I _R 1.0 500 C _J 60 I _{rr} 50 R _{BJC} 2	V _{RMS} 35 70 140 210 280 420 V _{DC} 50 100 200 300 400 600 I _{F(AV)} 10 125 V _F 1.0 1.30 1.70 I _R 500 40 C _J 60 40 t _{rr} 50 100 R _{BJC} 2

NOTES

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Reverse Recovery Test Conditions: IF=.5A, IR=1A, Irr=.25A.
- 3. Thermal resistance from Junction to case.
- 4. Both Bonding and Chip structure are available.





RATING AND CHARACTERISTIC CURVES

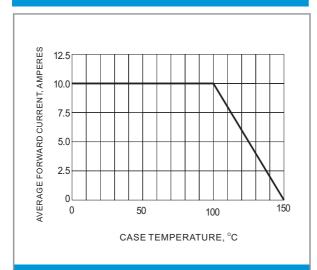


Fig.1 FORWARD CURRENT DERATING CURVE

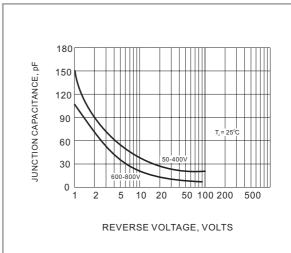


Fig.2 TYPICAL JUNCTION CAPACITANCES

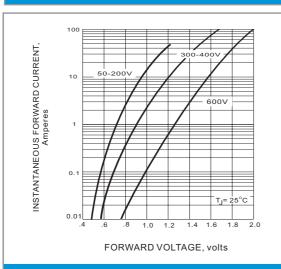


Fig.3 FORWARD CHARACTERISTICS

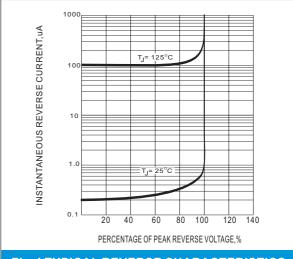
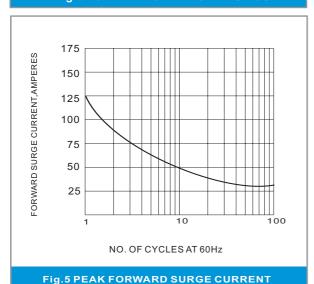


Fig.4 TYPICAL REVERSE CHARACTERISTICS







Part No_packing code_Version

UF1000FCT_T0_00001 UF1000FCT_T0_10001

For example:

RB500V-40_R2_00001



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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