



ULTRAFAST RECOVERY RECTIFIERS

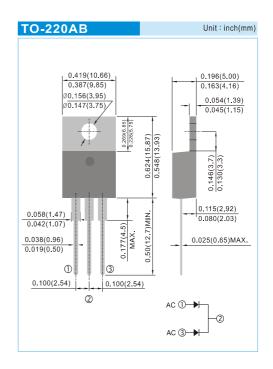
VOLTAGE 50 to 600 Volt CURRENT 20 Ampere

FEATURES

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

MECHANCALDATA

- Case: TO-220AB full molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Standard packaging: Any
- Weight: 0.067 ounces, 1.89 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	UF2000CT	UF2001CT	UF2002CT	UF2003CT	UF2004CT	UF2006CT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	V
Maximum RMS Voltage		35	70	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	V
Maximum Average Forward Current lead length at T _c = 100°C	I _{F(AV)}	20						А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}			А				
Maximum Forward Voltage at 10A	V _F		1	1 1.3		1.7	V	
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage T_J =125°C	I _R	1 500						μΑ
Typical Junction Capacitance (Note 1)	C¹	200						pF
Maximum Reverse Recovery Time (Note 2)	t _{rr}	50 10				100	ns	
Typical Thermal Resistance (Note 3)	R _{eJC}	2				°C / W		
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-65 to +150					°C	

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_r =.25A.
- 3. Thermal resistance from Junction to ambient and from junction to lead

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RATING AND CHARACTERISTIC CURVES

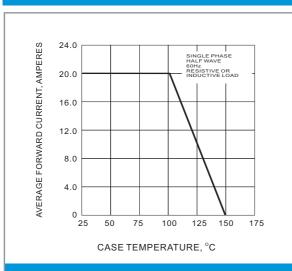


Fig.1 FORWARD CURRENT DERATING CURVE

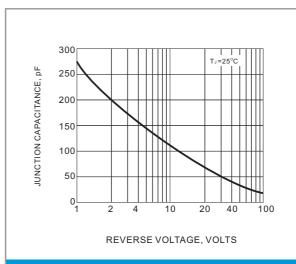


Fig.2 TYPICAL JUNCTION CAPACITANCES

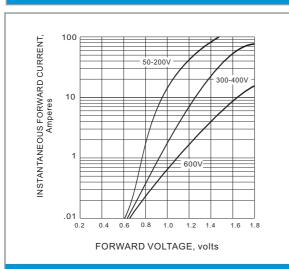


Fig.3 FORWARD CHARACTERISTICS

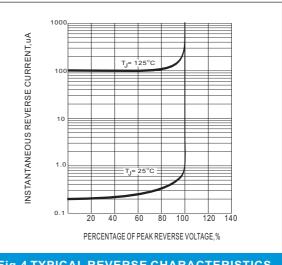
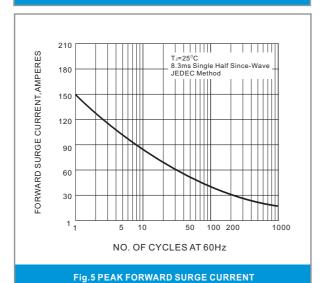


Fig.4 TYPICAL REVERSE CHARACTERISTICS



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Part No_packing code_Version

UF2000CT_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)	٦	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						

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