



ULTRAFAST RECOVERY RECTIFIERS

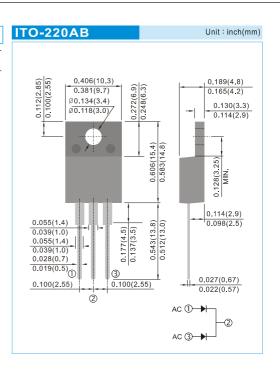
VOLTAGE 200 to 600 Volt CURRENT 20 Ampere

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)

MECHANCAL DATA

- Case: ITO-220AB full molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Standard packaging: Any
- Weight: 0.056 ounces, 1.6 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	UF2002FCT	UF2003FCT UF2004FCT		UF2006FCT	UNITS
Maximum Recurrent Peak Reverse Voltage		200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	140	210 280		420	V
Maximum DC Blocking Voltage	V _{DC}	200	300	400	600	٧
Maximum Average Forward Rectified Current	I _{F(AV)}	20				
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	I _{FSM}	150				А
Maximum Forward Voltage at 10A	V _F	1	1	.3	1.7	V
		1 250				μА
Typical Junction Capacitance (Notes 1)	C¹	200			pF	
Maximum Reverse Recovery Time (Notes 2)	t _{rr}	50 100		100	ns	
Typical Thermal Resistance (Notes 3)		7			°C / W	
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. Thermal resistance from junction to ambient and from junction to lead





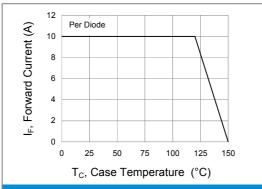


Fig.1 Forward Current Derating Curve

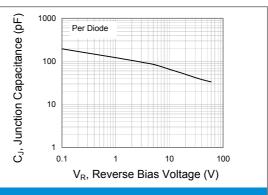


Fig.2 Typical Junction Capacitance

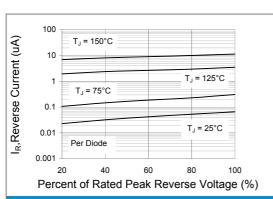


Fig.3 UF2002FCT Typical Reverse Characteristics

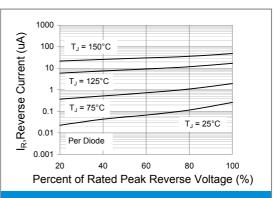


Fig.4 UF2003FCT & UF2004FCT Typical Reverse Characteristics

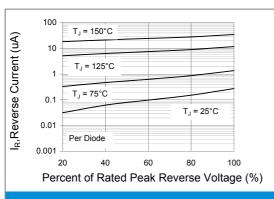


Fig.5 UF2006FCT Typical Reverse Characteristics

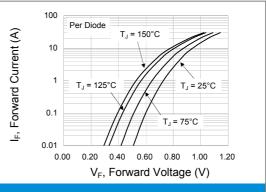


Fig.6 UF2002FCT Typical Forward Characteristics

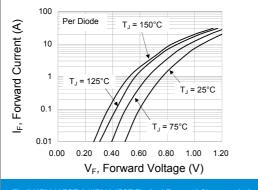
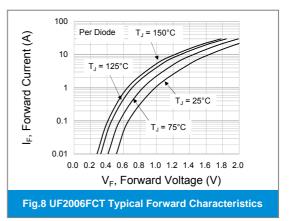


Fig.7 UF2003FCT & UF2004FCT Typical Forward Characteristics







Part No_packing code_Version

UF2002FCT_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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