

Unit : inch(mm)

0.189(4.8)

0.130(3.3)

0.114(2.9)

0.128(3.25) MIN

0.114(2.9)

0.027(0.67)

0.022(0.57)

-2

AC 3

UF1000FCT~UF1006FCT

ULTRAFAST RECOVERY RECTIFIERS

50 to 600 Volt CURRENT 10 Ampere

ITO-220AB

0.406(10.3)

0.381(9.7)

Ø0.134(3.4)

Ø0.118(3.0)/

0.272(6.9)

248(

0.606(15.4) 0.583(14.8)

0.543(13.8) 0.512(13.0)

0.177(4.5) 0.137(3.5)

0.100(2.55)

3

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0.112(2.85) 0.100(2.55)

0.055(1.4)

0.055(1.4)

0.028(0.7) 0.019(0.5)

0.100(2.55)

FEATURES

VOLTAGE

- 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 time, 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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- · Polarity: As marked.
- Standard packaging: Any
- Weight: 0.056 ounces, 1.6 grams

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%	
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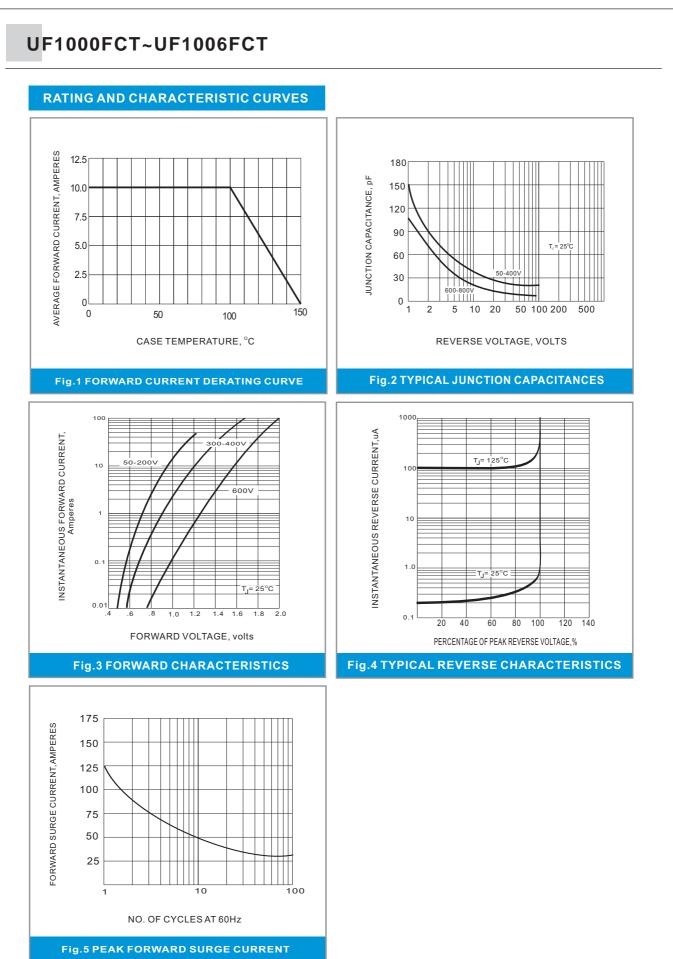
PARAMETER	SYMBOL	UF1000FCT	UF1001FCT	UF1002FCT	UF1003FCT	UF1004FCT	UF1006FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	200	300	400	600	V
Maximum RMS Voltage	V _{rms}	35	70	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	V
Maximum Average Forward Current	I _{F(AV)}	10						A
Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load	I _{fsm}	125						A
Maximum Forward Voltage at 5A	V _F		1	1.3 1		1.7	V	
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =125°C	I _R	1 500						μA
Typical Junction Capacitance (Note 1)	C」	60 40					рF	
Maximum Reverse Recovery Time (Note 2)	t _{rr}	50 100					100	ns
Typical Thermal Resistance (Note 3)	R _{ejc}	2				°C / W		
Operating Junction and Storage Temperature Range	T_,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 case.
- 4. Both Bonding and Chip structure are available.











UF1000FCT~UF1006FCT

Part No_packing code_Version

UF1000FCT_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)	A	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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