



ULTRAFAST RECOVERY RECTIFIERS

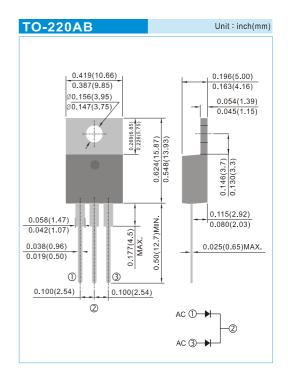
VOLTAGE 50 to 800 Volt CURRENT 16 Ampere

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: TO-220AB 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		UF1600CT	UF1601CT	UF1602CT	UF1603CT	UF1604CT	UF1606CT	UF1608CT	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	300	400	600	800	V
Maximum RMS Voltage		35	70	140	210	280	420	560	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	٧
Maximum Average Forward Current at T _c = 100°C	I _{F(AV)}	16					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125					А		
Maximum Forward Voltage at 8A	V _F		1 1.3 1.7		.7	V			
Maximum DC Reverse Current at Rated DC Blocking $T_J=25^{\circ}\text{C}$ Voltage $T_J=125^{\circ}\text{C}$	I _R	1 500					μА		
Typical Junction Capacitance (Note 1)	C¹	170 130			30	pF			
Maximum Reverse Recovery Time (Note 2)	t _{rr}	50 100		00	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 VDC
- 2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, Irr=0.25A.
- 3. Thermal resistance from Junction to case.





RATING AND CHARACTERISTIC CURVES

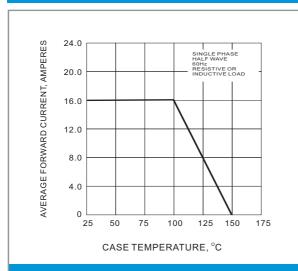


Fig.1 FORWARD CURRENT DERATING CURVE

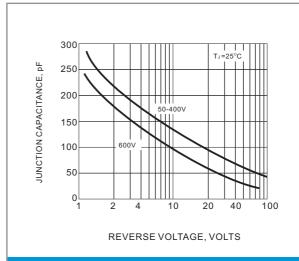


Fig.2 TYPICAL JUNCTION CAPACITANCES

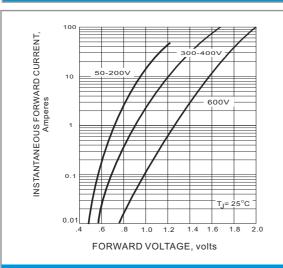


Fig.3 FORWARD CHARACTERISTICS

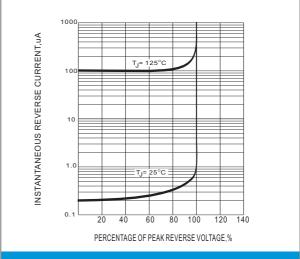
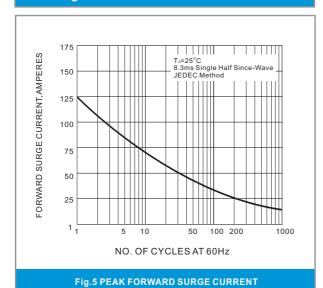


Fig.4 TYPICAL REVERSE CHARACTERISTICS







Part No_packing code_Version

UF1600CT_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)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

UF1604CT_T0_00001