

# **UF1000CT - UF1008CT**

## 10A ULTRAFAST GLASS PASSIVATED RECTIFIER

#### **Features**

- Glass Passivated Die Construction
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

#### **Mechanical Data**

Case: Molded Plastic

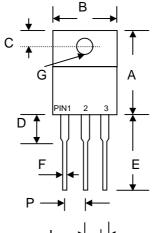
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

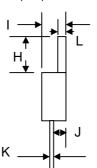
Polarity: See Diagram

Weight: 2.24 grams (approx.)

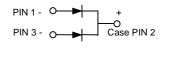
Mounting Position: Any

Marking: Type Number





TO-220						
Dim	Min	Max				
Α	14.9	15.1				
В	_	10.5				
С	2.62	2.87				
D	3.56	4.06				
Е	13.46	14.22				
F	0.68	0.94				
G	3.74 Ø	3.91 Ø				
Н	5.84	6.86				
I	4.44	4.70				
J	2.54	2.79				
K	0.35	0.64				
L	1.14	1.40				
Р	2.41	2.67				
All Dimensions in mm						



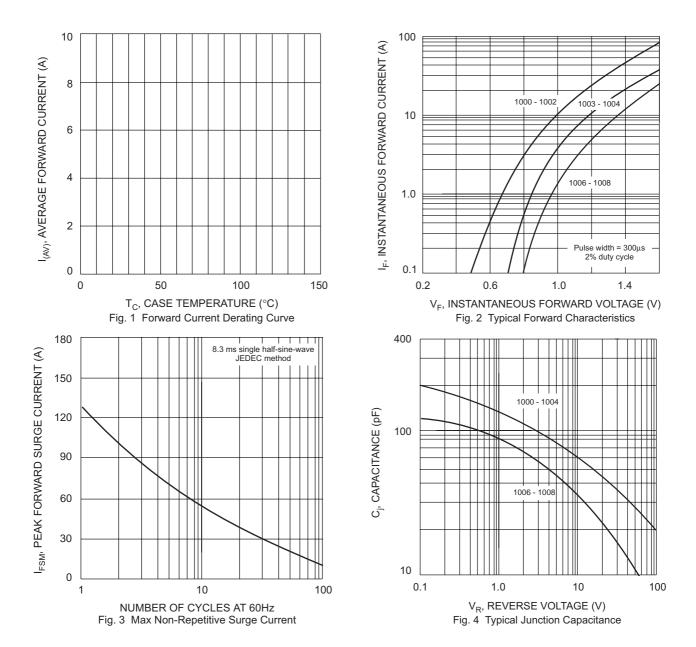
### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	UF 1000CT	UF 1001CT	UF 1002CT	UF 1003CT	UF 1004CT	UF 1006CT	UF 1008CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	300	400	600	800	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	420	560	V
Average Rectified Output Current @T <sub>C</sub> = 100°C	lo	10						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	125					Α		
Forward Voltage @I <sub>F</sub> = 5.0A	VFM	1.0 1.3 1.7			.7	V			
	IRM	10 400					μΑ		
Reverse Recovery Time (Note 1)	trr	50 100				00	nS		
Typical Junction Capacitance (Note 2)	Cj	80 50				0	pF		
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150					°C		

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
UF1000CT	TO-220	50 Units/Tube
UF1001CT	TO-220	50 Units/Tube
UF1002CT	TO-220	50 Units/Tube
UF1003CT	TO-220	50 Units/Tube
UF1004CT	TO-220	50 Units/Tube
UF1006CT	TO-220	50 Units/Tube
UF1008CT	TO-220	50 Units/Tube

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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