

UF1600CT - UF1608CT

16A 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

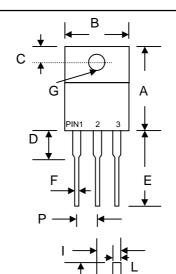
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

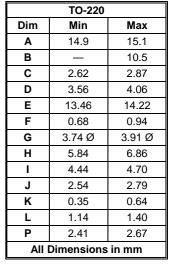
• Polarity: See Diagram

Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number







PIN 1 - 0	+
PIN 3 - O	O Case PIN 2

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 1600CT	UF 1601CT	UF 1602CT	UF 1603CT	UF 1604CT	UF 1606CT	UF 1608CT	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 _C = 105°C	lo	16					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 _F = 8.0A	VFM	1.0 1.3 1.7			.7	V			
	lгм	10 500					μΑ		
Reverse Recovery Time (Note 1)	trr	50 100			00	nS			
Typical Junction Capacitance (Note 2)	Cj	80 50			pF				
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150				°C			

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

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

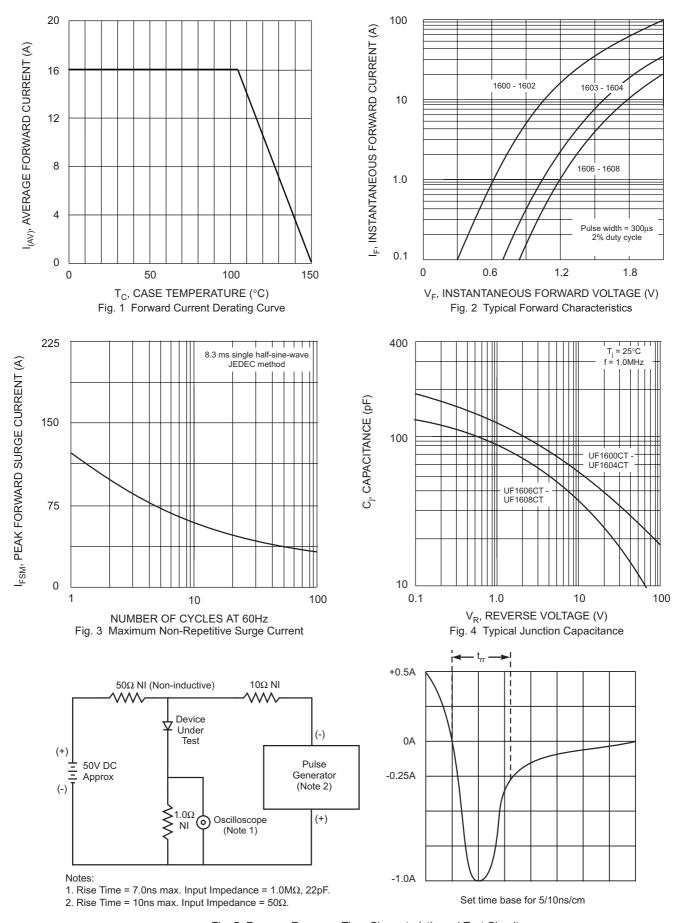


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
UF1600CT	TO-220	50 Units/Tube
UF1601CT	TO-220	50 Units/Tube
UF1602CT	TO-220	50 Units/Tube
UF1603CT	TO-220	50 Units/Tube
UF1604CT	TO-220	50 Units/Tube
UF1606CT	TO-220	50 Units/Tube
UF1608CT	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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