

UF1600CT - UF1608CT



16A GLASS PASSIVATED DUAL ULTRAFAST RECTIFIER

Features

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

Mechanical Data

• Case: TO-220, Molded Plastic

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

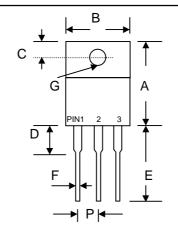
Polarity: See Diagram

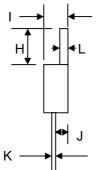
Weight: 2.24 grams (approx.)

Mounting Position: Any

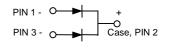
Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4





TO-220					
Dim	Min	Max			
Α	13.90	15.90			
В	9.80	10.70			
С	2.54	3.43			
D	3.56	4.56			
Е	12.70	14.73			
F	0.51	0.96			
G	3.55 Ø	4.09 Ø			
Н	5.75	6.85			
I	4.16	5.00			
J	2.03	2.92			
K	0.30	0.65			
L	1.14	1.40			
Р	2.29	2.79			
All Dimensions in mm					



Maximum Ratings and Electrical Characteristics @T_A=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	٧
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					А		
Forward Voltage @I _F = 8.0A	VFM	1.0 1.3			.3	1.7		V	
Peak Reverse Current	IRM	10 500			μA				
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 +15	0			°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.

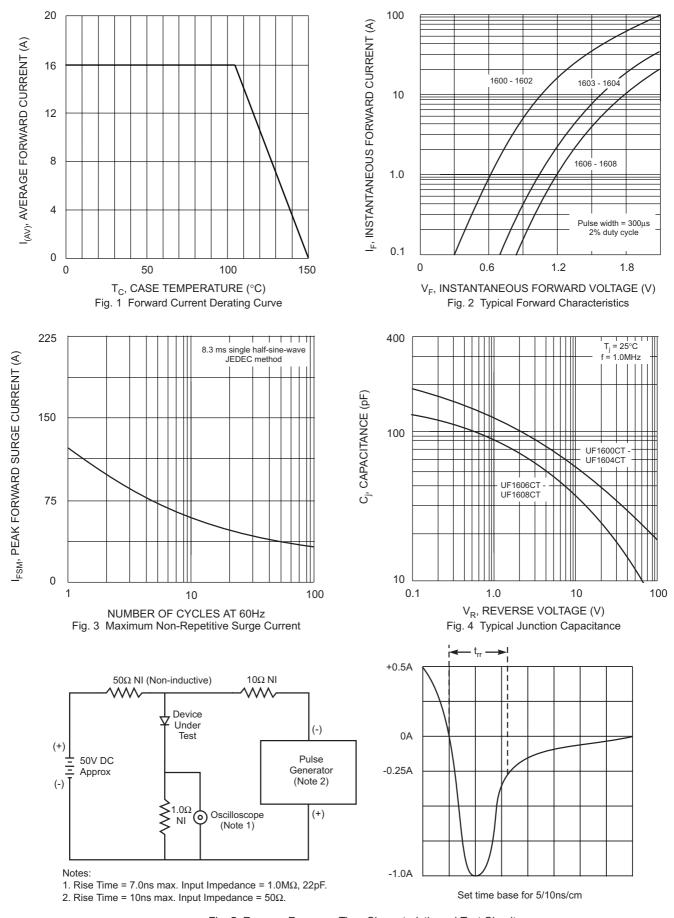
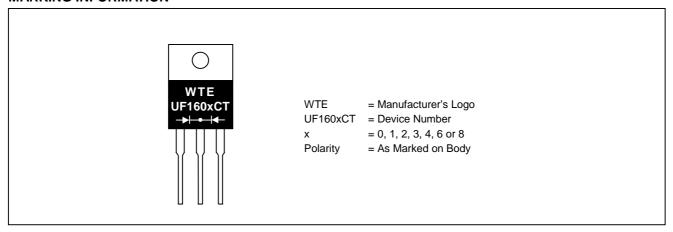


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION



PACKAGING INFORMATION

BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
525 x 31 x 6	50	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19.0

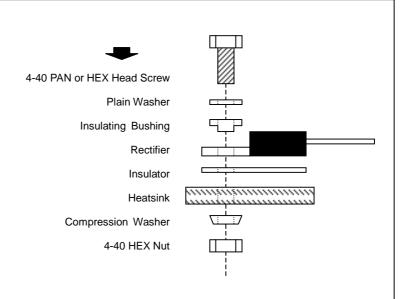
Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

Recommended isolated mounting when screw is at heatsink potential. 4-40 hardware is used.

Screw should not be tightened with any type of air-forced torque or equipment that may cause high impact on device package. The insulating bushing inside the mounting hole will insure the screw threads do not contact the metal base.

The interface should apply a layer of thermal grease or a highly conductive thermal pad for better heat dissipation.



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.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, UF1600CT-LF.

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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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