

UF1600FCT – UF1608FCT

16A ISOLATION 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: ITO-220 Full Molded Plastic

Terminals: Plated Leads Solderable per

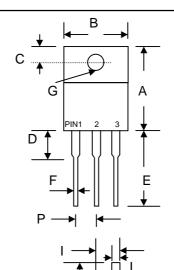
MIL-STD-202, Method 208

Polarity: See Diagram

Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number



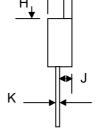
Α	14.9	15.1			
В		10.5			
С	2.62	2.87			
D	3.56	4.06			
Е	13.46	14.22			
F	0.68	0.94			
G	3.74 Ø	3.91 Ø			
H	5.84	6.86			
ı	4.44	4.70			
J	2.54	2.79			
K	0.35	0.64			
L	1.14	1.40			
Р	2.41	2.67			
All Dimensions in mm					
	_				

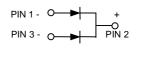
ITO-220

Max

Min

Dim





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 1600FCT	UF 1601FCT	UF 1602FCT	UF 1603FCT	UF 1604FCT	UF 1606FCT	UF 1608FCT	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			
	IRM	10 500					μΑ		
Reverse Recovery Time (Note 1)	trr			50			10	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. See figure 5.

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

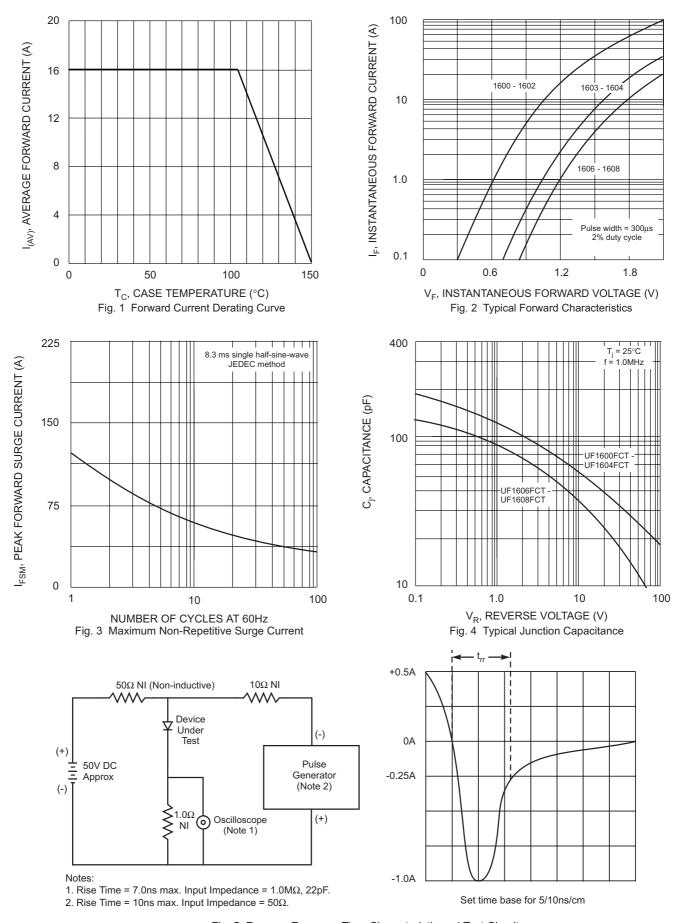


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
UF1600FCT	ITO-220	50 Units/Tube
UF1601FCT	ITO-220	50 Units/Tube
UF1602FCT	ITO-220	50 Units/Tube
UF1603FCT	ITO-220	50 Units/Tube
UF1604FCT	ITO-220	50 Units/Tube
UF1606FCT	ITO-220	50 Units/Tube
UF1608FCT	ITO-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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