

UF1600FCT – UF1608FCT



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: ITO-220, Full Molded Plastic

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

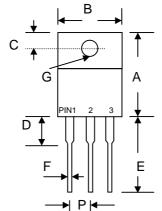
Polarity: See Diagram

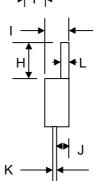
Weight: 2.24 grams (approx.)

Mounting Position: Any

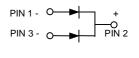
Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.

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





ITO-220					
Dim	Min	Max			
Α	14.60	15.40			
В	9.70	10.30			
С	2.55	2.85			
D	3.56	4.16			
Е	13.00	13.80			
F	0.30	0.90			
G	3.00 Ø	3.50 Ø			
Н	6.30	6.90			
I	4.20	4.80			
J	2.50	2.90			
K	0.36	0.80			
L	2.90	3.30			
Р	2.29	2.79			
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 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	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	420	560	V
Average Rectified Output Current @T _C = 105°C	lo	16					А		
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	V
$ \begin{array}{cccc} \text{Peak Reverse Current} & @T_{\text{A}} = 25^{\circ}\text{C} \\ \text{At Rated DC Blocking Voltage} & @T_{\text{A}} = 125^{\circ}\text{C} \\ \end{array} $	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	Тј, Тѕтс				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.

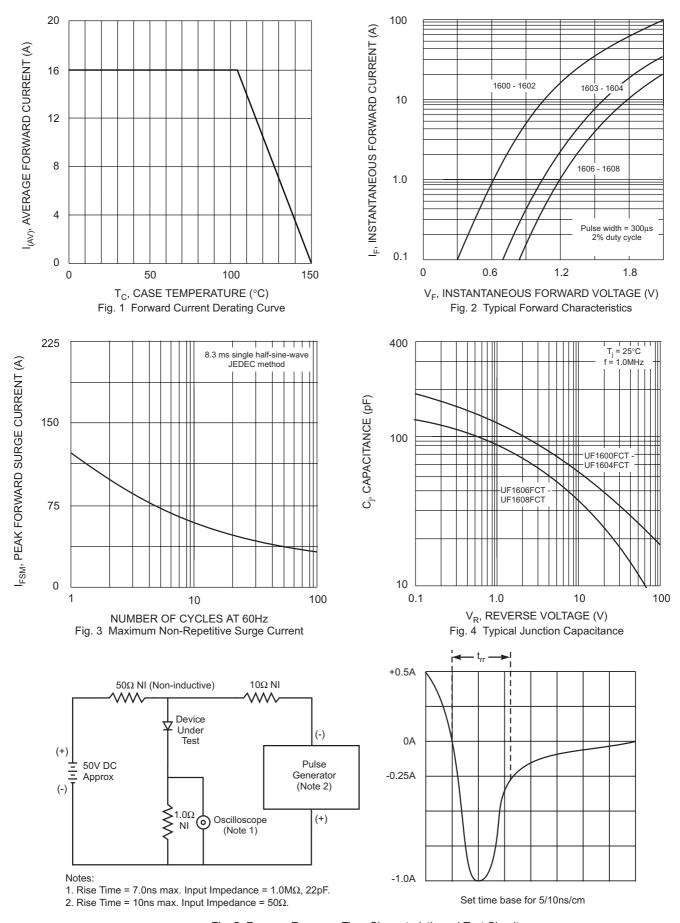
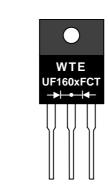


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION



WTE = Manufacturer's Logo
UF160xFCT = Device Number
x = 0, 1, 2, 3, 4, 6 or 8
Polarity = As Marked on Body

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

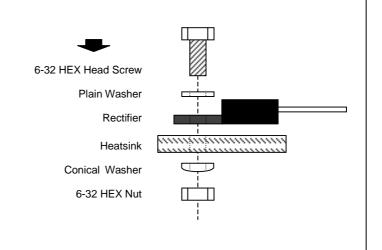
Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

The full molded plastic package affords a major reduction of hardware as compared to a standard TO-220 package. However, precautions should be made in mounting procedure.

A conical washer should be used to apply proper force to the device. Screw should not be tightened with any type of air-forced torque or equipment that may cause crack on device package.

A layer of thermal grease or thermal pad in the interface will be considerably helpful for heat dissipation.



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.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, UF1600FCT-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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