

UF4001 – UF4007

1.0A ULTRAFAST RECOVERY RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

Case: Molded Plastic

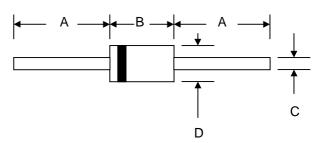
Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: Cathode Band

Weight: 0.34 grams (approx.)

Mounting Position: Any

Marking: Type Number



DO-41					
Dim	Min	Max			
Α	25.4	_			
В	4.06	5.21			
С	0.71	0.864			
D	2.00	2.72			
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 4001	UF 4002	UF 4003	UF 4004	UF 4005	UF 4006	UF 4007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 55°C	lo				1.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM				30				А
Forward Voltage $@I_F = 1.0A$	VFM		1.0		1.3		1.7		V
	IRM				5.0 100				μΑ
Reverse Recovery Time (Note 2)	trr		5	60			75		nS
Typical Junction Capacitance (Note 3)	Cj		2	.0			10		pF
Operating Temperature Range	Tj	-65 to +125			°C				
Storage Temperature Range	Тѕтс	-65 to +150				°C			

1 of 3

*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

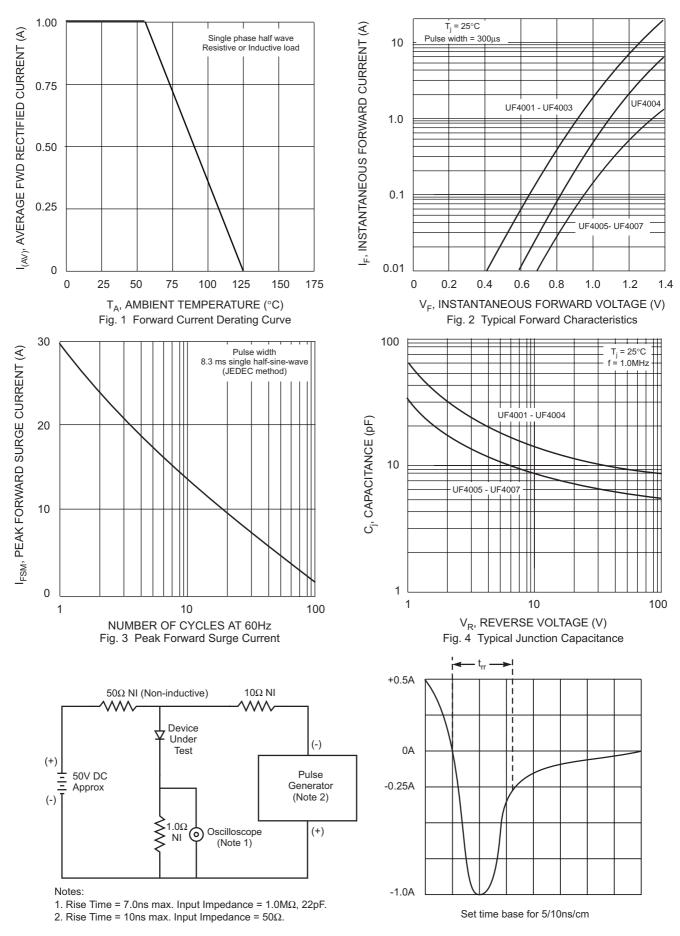


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity				
UF4001-T3	DO-41	5000/Tape & Reel				
UF4001-TB	DO-41	5000/Tape & Box				
UF4001	DO-41	1000 Units/Box				
UF4002-T3	DO-41	5000/Tape & Reel				
UF4002-TB	DO-41	5000/Tape & Box				
UF4002	DO-41	1000 Units/Box				
UF4003-T3	DO-41	5000/Tape & Reel				
UF4003-TB	DO-41	5000/Tape & Box				
UF4003	DO-41	1000 Units/Box				
UF4004-T3	DO-41	5000/Tape & Reel				
UF4004-TB	DO-41	5000/Tape & Box				
UF4004	DO-41	1000 Units/Box				
UF4005-T3	DO-41	5000/Tape & Reel				
UF4005-TB	DO-41	5000/Tape & Box				
UF4005	DO-41	1000 Units/Box				
UF4006-T3	DO-41	5000/Tape & Reel				
UF4006-TB	DO-41	5000/Tape & Box				
UF4006	DO-41	1000 Units/Box				
UF4007-T3	DO-41	5000/Tape & Reel				
UF4007-TB	DO-41	5000/Tape & Box				
UF4007	DO-41	1000 Units/Box				

Products listed in **bold** are WTE **Preferred** devices.

T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

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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