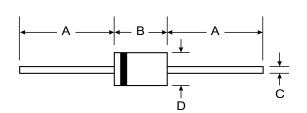


UF2001 - UF2007

2.0A Axial Leaded Ultrafast Diode

Features

- **Diffused Junction**
- Ultra-Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 60A Peak
- Low Reverse Leakage Current
- Plastic Material: UL Flammability Classification Rating 94V-0



Mechanical Data

Case: Molded Plastic

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

Polarity: Cathode Band Marking: Type Number

Weight: 0.4 grams (approx.) Mounting Position: Any

DO-15							
Dim	Min	Max					
Α	25.40	_					
В	5.50	7.62					
С	0.686	0.889					
D	2.60	3.60					
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 2001	UF 2002	UF 2003	UF 2004	UF 2005	UF 2006	UF 2007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @ T _A = 50°C	lo	2.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	60					А		
Forward Voltage @ I _F = 2.0A	V _{FM}	1.0		1.3	1.7			V	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$		5.0 100							μА
Reverse Recovery Time (Note 3)		50 75						ns	
Typical Junction Capacitance (Note 2)		50 30						pF	
Typical Thermal Resistance Junction to Ambient		50						K/W	
Operating and Storage Temperature Range		-65 to +150							°C

Notes:

- 1. Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Measured at $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$. See figure 5.



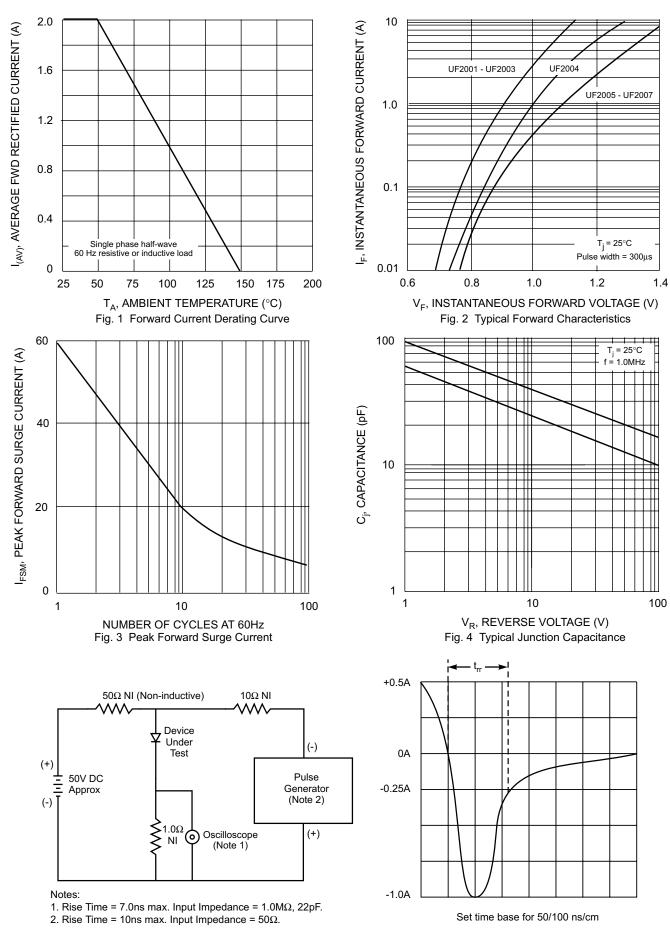


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit