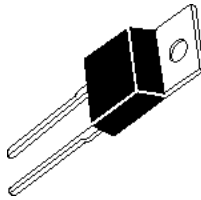
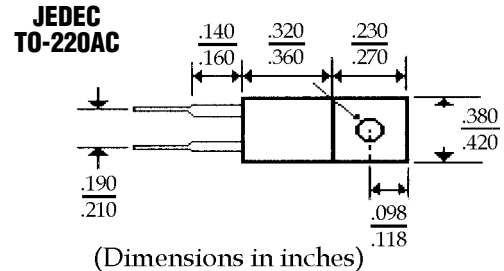


Description



Mechanical Dimensions



Features

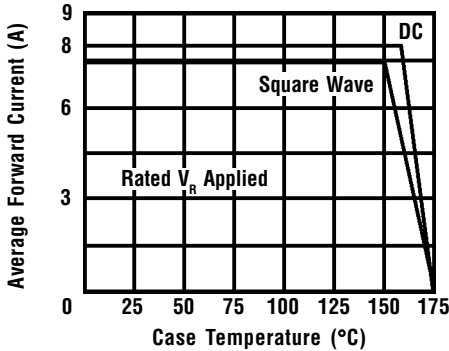
- **LOW FORWARD VOLTAGE**
- **HIGH SURGE CAPABILITY**
- **ULTRAFAST RECOVERY TIME**
- **MEETS UL SPECIFICATION 94V-0**

UF08-00 . . . -10 Series											Units			
Maximum Ratings	-00	-01	-01A	-02	-03	-04	-05	-06	-07	-08	-09	-10		
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	150	200	300	400	500	600	700	800	900	1000	Volts	
Working Peak Reverse Voltage... V_{RWM}	50	100	150	200	300	400	500	600	700	800	900	1000	Volts	
DC Blocking Voltage... V_{DC}	50	100	150	200	300	400	500	600	700	800	900	1000	Volts	
Average Forward Rectified Current... $I_{F(av)}$ $T_C = 150^\circ\text{C}$ @ Rated V_{DC}							8.0						Amps	
Repetitive Peak Forward Surge Current... I_{FM} @ Rated V_{DC} , Square Wave, 20 kHz, $T_C = 150^\circ\text{C}$							16						Amps	
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Cond., 1/2 Wave, Single Phase, 60Hz							100						Amps	
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 150											$^\circ\text{C}$		
Electrical Characteristics														
Maximum Forward Voltage... V_F @ $I_F = 8$ Amps, $PW = 300\mu\text{s}$	$T_C = 150^\circ\text{C}$	< ... 0.895 ... >										Volts		
	$T_C = 25^\circ\text{C}$	< ... 0.975 ... >										Volts		
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage	$T_C = 150^\circ\text{C}$	< ... 250 ... >			< ... 500 ... >			< ... 500 ... >			< ... 500 ... >			μAmps
	$T_C = 25^\circ\text{C}$	< ... 5.0 ... >			< ... 10 ... >			< ... 10 ... >			< ... 25 ... >			μAmps
Maximum Thermal Resistance... $R_{\theta JC}$	< ... 3.0 ... >			< ... 2.0 ... >									$^\circ\text{C} / \text{W}$	
Maximum Reverse Recovery Time... t_{RR} $I_F = 1.0$ Amp, $di/dt = 50$ Amps/ μs	< ... 35 ... >			< ... 60 ... >			< ... 60 ... >			< ... 100 ... >			ns	
	< ... 25 ... >			< ... 50 ... >			< ... 50 ... >			< ... 75 ... >			ns	

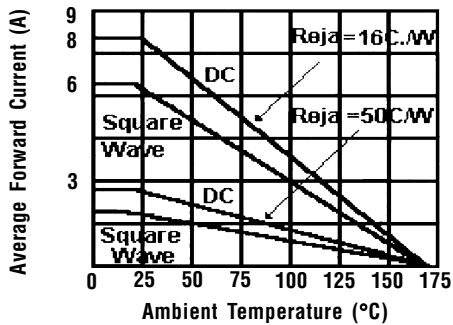
8.0 Amp ULTRAFAST PLASTIC RECTIFIERS

UF08-00 . . . -10 Series

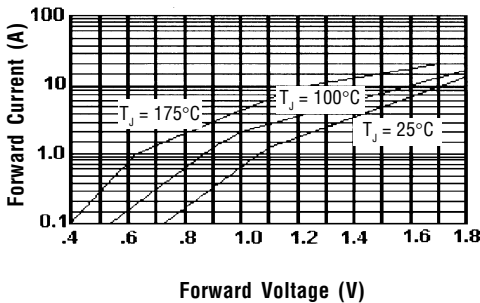
Forward Current Derating Curve



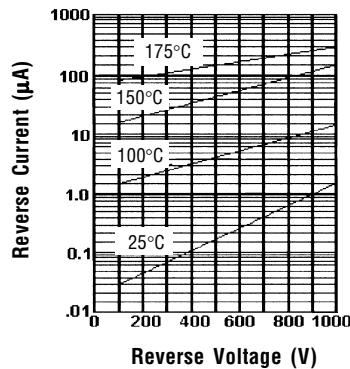
Forward Current Derating Curve



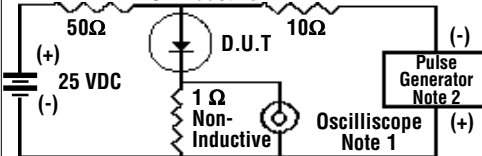
Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics

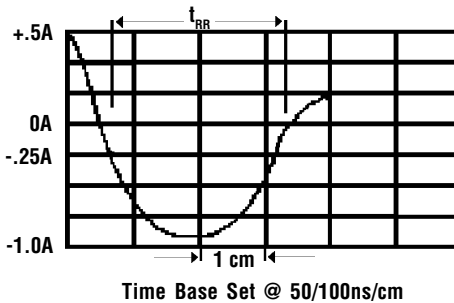


Non-Inductive



- Notes: 1. Rise Time = 7 ns Max.
Impedance = 1 megohm, 22 pF
2. Rise Time = 10 ns Max.
Source Impedance = 50 Ohms

Reverse Recovery Characteristics



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 Hz Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.