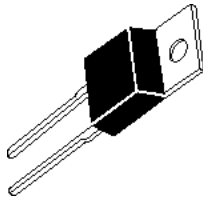
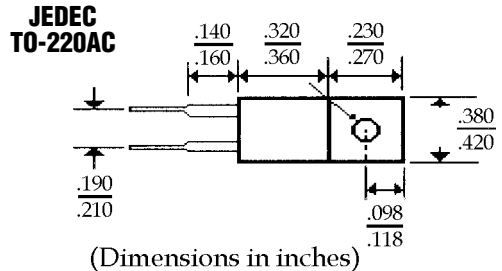


**Description**



**Mechanical Dimensions**



**Features**

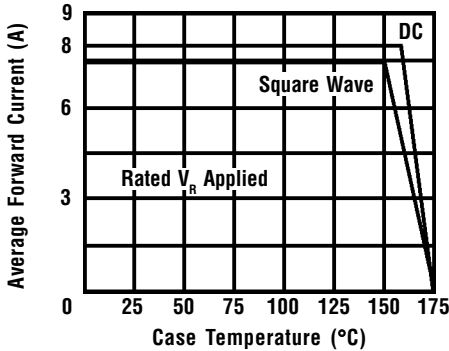
- **LOW FORWARD VOLTAGE**
- **HIGH SURGE CAPABILITY**
- **ULTRAFAST RECOVERY TIME**
- **MEETS UL SPECIFICATION 94V-0**

<b>UF08-00 . . . -10 Series</b>											<b>Units</b>		
<b>Maximum Ratings</b>	<b>-00</b>	<b>-01</b>	<b>-01A</b>	<b>-02</b>	<b>-03</b>	<b>-04</b>	<b>-05</b>	<b>-06</b>	<b>-07</b>	<b>-08</b>	<b>-09</b>	<b>-10</b>	
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						$^\circ\text{C}$
<b>Electrical Characteristics</b>													
Maximum Forward Voltage... $V_F$ @ $I_F = 8$ Amps, $PW = 300\mu\text{s}$	$T_C = 150^\circ\text{C}$	< ... 0.895 ... > < ... 1.0 ... > < ... 1.2 ... > < ... 1.5 ... >										Volts	
	$T_C = 25^\circ\text{C}$	< ... 0.975 ... > < ... 1.3 ... > < ... 1.5 ... > < ... 1.8 ... >										Volts	
Maximum DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_C = 150^\circ\text{C}$	< ... 250 ... > < ... 500 ... > < ... 500 ... > < ... 500 ... >										$\mu\text{Amps}$	
	$T_C = 25^\circ\text{C}$	< ... 5.0 ... > < ... 10 ... > < ... 10 ... > < ... 25 ... >										$\mu\text{Amps}$	
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/ $\mu\text{s}$	< ... 35 ... > < ... 60 ... > < ... 60 ... > < ... 100 ... >										ns		
	$I_F = 0.5$ Amps, $I_R = 1.0$ Amps, $I_{RR} = 0.25$ Amps										< ... 25 ... > < ... 50 ... > < ... 50 ... > < ... 75 ... >	ns	

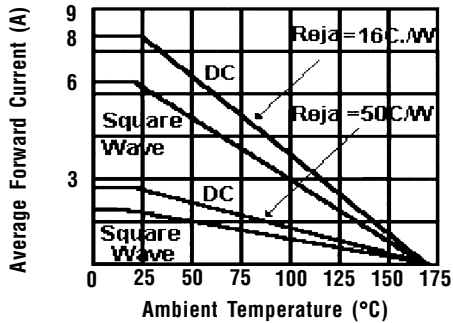
# 8.0 Amp ULTRAFAST PLASTIC RECTIFIERS

**UF08-00 . . . -10 Series**

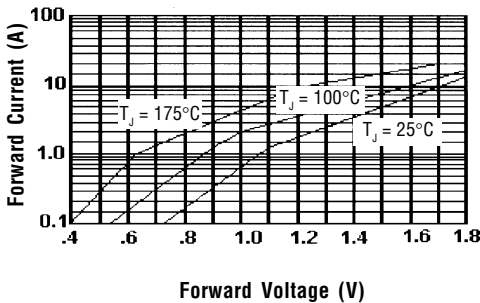
**Forward Current Derating Curve**



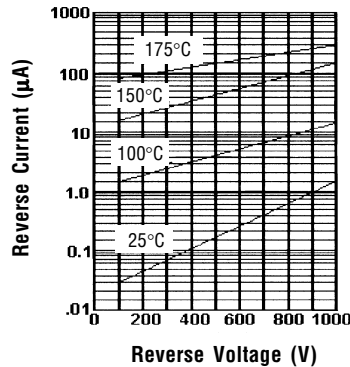
**Forward Current Derating Curve**



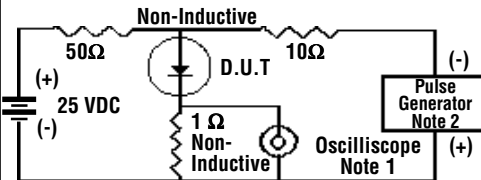
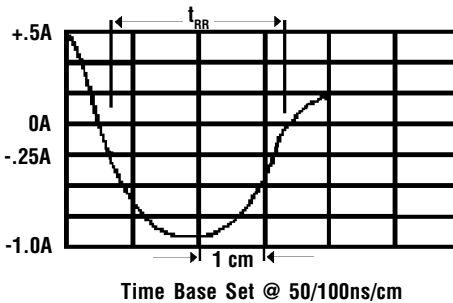
**Typical Instantaneous Forward Characteristics**



**Typical Reverse Characteristics**



**Reverse Recovery Characteristics**



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

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%.