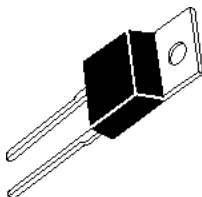
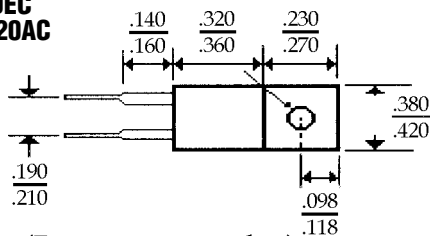


Description



Mechanical Dimensions

**JEDEC
TO-220AC**



(Dimensions in inches)

Features

- **LOW FORWARD VOLTAGE**
- **HIGH SURGE CAPABILITY**

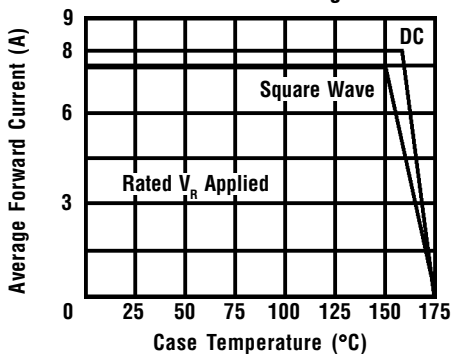
- **ULTRAFAST RECOVERY TIME**
- **MEETS UL SPECIFICATION 94V-0**

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°C @ Rated V _{DC}							8.0						Amps
Repetitive Peak Forward Surge Current...I _{FM} @ Rated V _{DC} , Square Wave, 20 kHz, T _C = 150°C							16						Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} @ Rated Load Cond., ½ Wave, Single Phase, 60Hz							100						Amps
Operating & Storage Temperature Range...T _J , T _{STRG}							-65 to 150						°C
Electrical Characteristics													
Maximum Forward Voltage...V _F @ I _F = 8 Amps, PW = 300µs	T _C = 150°C		< ... 0.895 .. >		< 1.0 ... >		< 1.2 ... >		< 1.5 ... >				Volts
	T _C = 25°C		< ... 0.975 .. >		< 1.3 ... >		< 1.5 ... >		< 1.8 ... >				Volts
Maximum DC Reverse Current...I _R @ Rated DC Blocking Voltage	T _C =150°C		< 250 ... >		< 500 ... >		< 500 ... >		< 500 ... >				µAmps
	T _C = 25°C		< 5.0 ... >		< 10 ... >		< 10 ... >		< 25 ... >				µAmps
Maximum Thermal Resistance...R _{θJC}			< 3.0 ... >		< 2.0								°C / W
Maximum Reverse Recovery Time...t _{RR} I _F = 1.0 Amp, di/dt = 50 Amps/µs			< 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

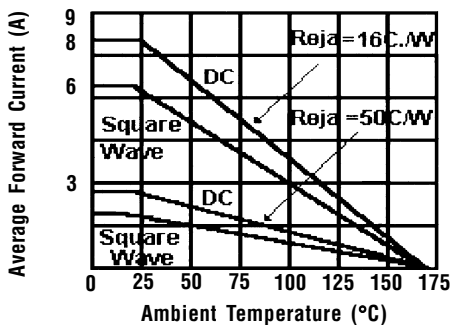
8.0 Amp ULTRAFAST PLASTIC RECTIFIERS

UF08-00 . . . -10 Series

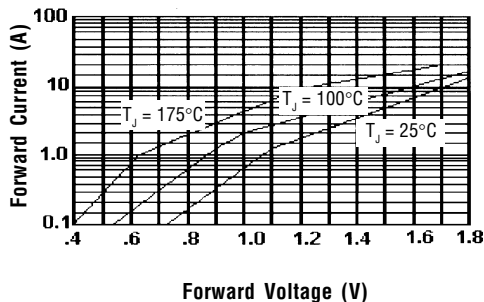
Forward Current Derating Curve



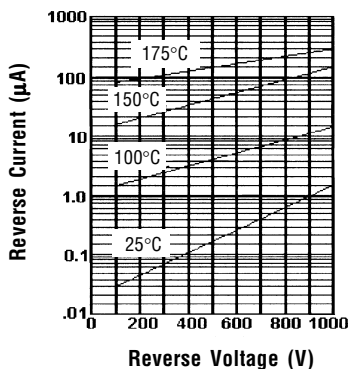
Forward Current Derating Curve



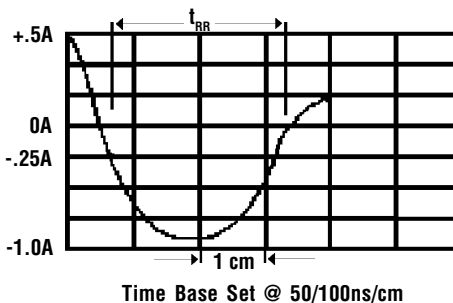
Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



Reverse Recovery Characteristics



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%.