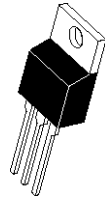
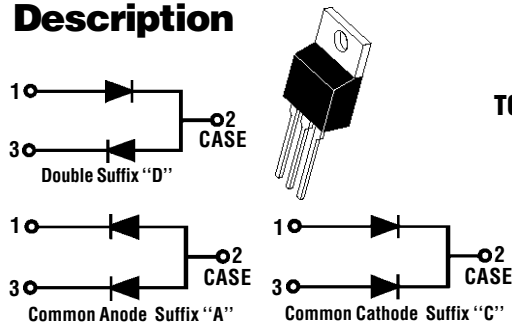




10 Amp ULTRAFAST RECOVERY POWER RECTIFIERS

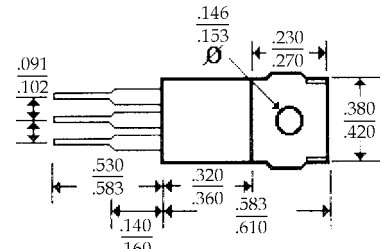
VF10C05...10C80

Description



Mechanical Dimensions

JEDEC TO-220AB

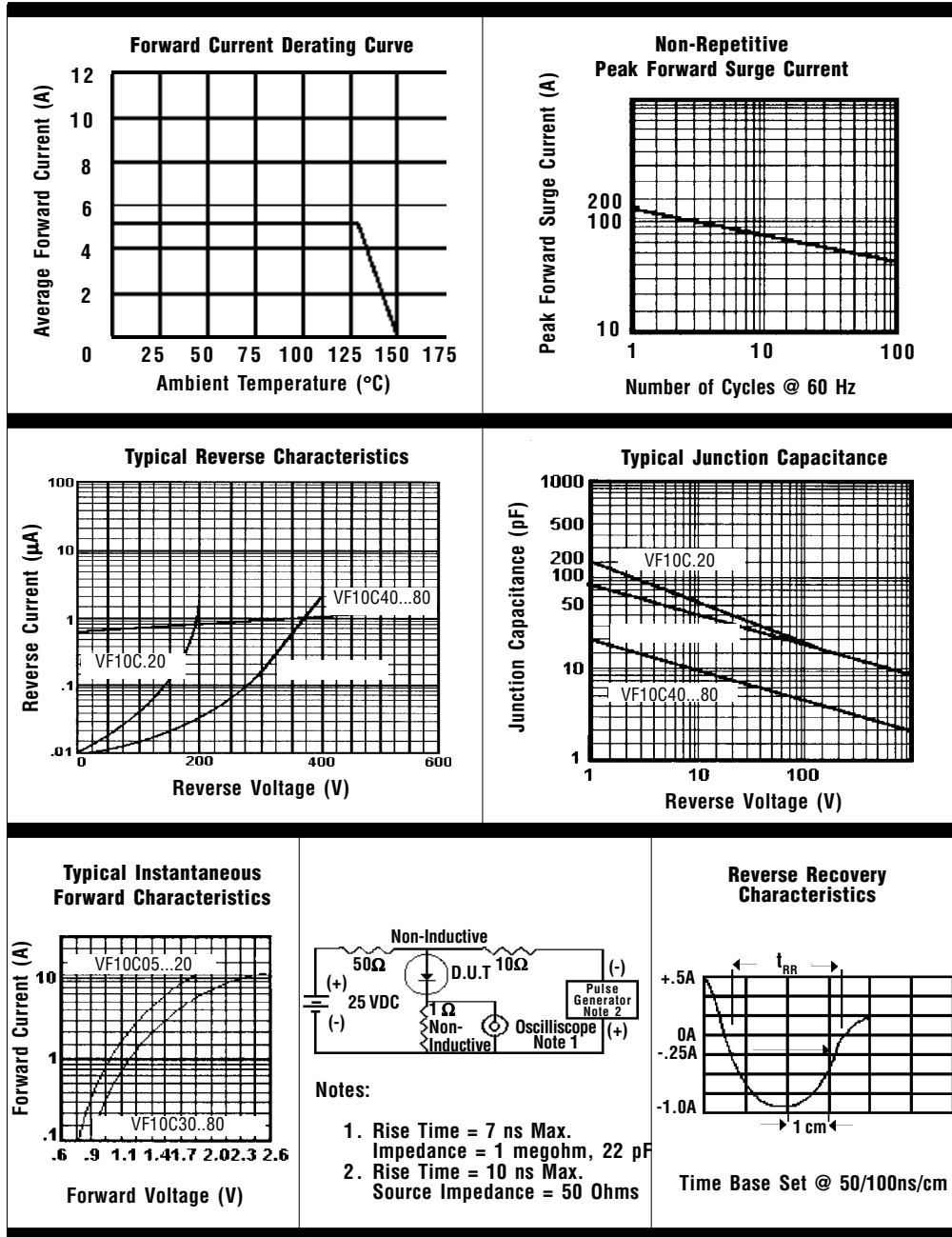


Features

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

<i>VF10C05.....VF10C80 SERIES</i>								Units	
Maximum Ratings									
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	300	400	500	600	800	Volts
Working Peak Reverse Voltage... V_{RWM}	50	100	200	300	400	500	600	800	Volts
DC Blocking Voltage... V_{DC}	50	100	200	300	400	500	600	800	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	210	280	350	420	560	Volts
Average Forward Rectified Current... $I_{F(av)}$ (Per Leg) $T_C = 100^\circ\text{C}$ @ Rated V_{DC} (Total)								5 10	Amps Amps
Repetitive Peak Forward Surge Current... I_{FM} @ Rated V_{DC} , Square Wave, 20 kHz, $T_C = 100^\circ\text{C}$								10	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, Per Diode Leg									
Maximum Forward Voltage... V_F @ $I_F = 5$ Amps, PW = 300 μs $T_C = 25^\circ\text{C}$	1.0	1.0	1.0	1.3	1.3	1.7	1.7	1.7	Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage $T_C = 125^\circ\text{C}$ $T_C = 25^\circ\text{C}$								500 10	μAmps μAmps
Maximum Reverse Recovery Time... t_{RR} $I_F = 0.5$ Amp, $I_R = 1\text{A}$, $I_{rr} = 0.25\text{A}$	50	50	50	50	50	75	75	75	ns

10 Amp ULTRAFAST RECOVERY POWER RECTIFIERS



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%.