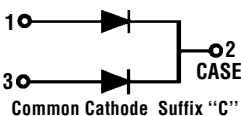
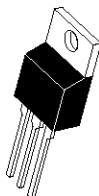
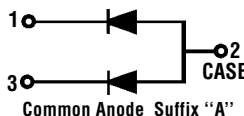
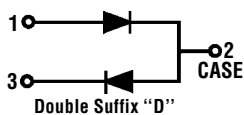
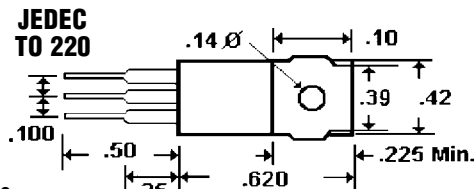


Description



Mechanical Dimensions



Features

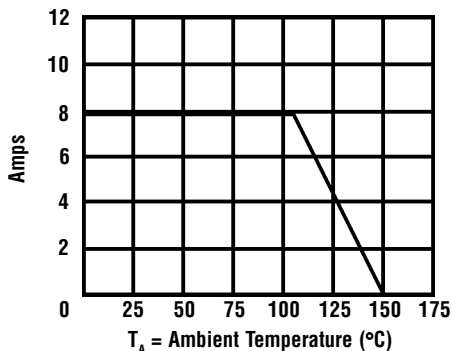
- LOW FORWARD VOLTAGE
- HIGH SURGE CAPABILITY

- SUPERFAST RECOVERY TIME
- MEETS UL SPECIFICATION 94V-0

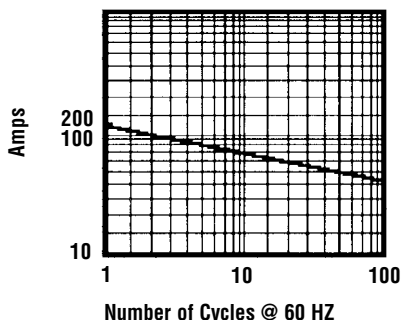
Electrical Characteristics @ 25°C.	VF16C05 . . . 60 Series								Units
Maximum Ratings	05	10	15	20	30	40	50	60	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	150	200	300	400	500	600	Volts
Working Peak Reverse Voltage... V_{RWM}	50	100	150	200	300	400	500	600	Volts
DC Blocking Voltage... V_{DC}	50	100	150	200	300	400	500	600	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	105	140	210	280	350	420	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_C = 150^\circ\text{C}$ @ Rated V_{DC}					8.0				Amps
					16				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					125				Amps
Forward Voltage... V_F @ $I_F = 8$ Amps, PW = 300 μ S $T_C = 150^\circ\text{C}$ $T_C = 25^\circ\text{C}$									Volts
									Volts
DC Reverse Current... I_R @ Rated DC Blocking Voltage $T_C = 150^\circ\text{C}$ $T_C = 25^\circ\text{C}$									μ Amps
									μ Amps
Reverse Recovery Time... t_{RR} $I_F = 1.0$ Amp, di/dt = 50 Amps/ μ s									nS
Operating & Storage Temperature Range... T_J , T_{STRG}									$^\circ\text{C}$



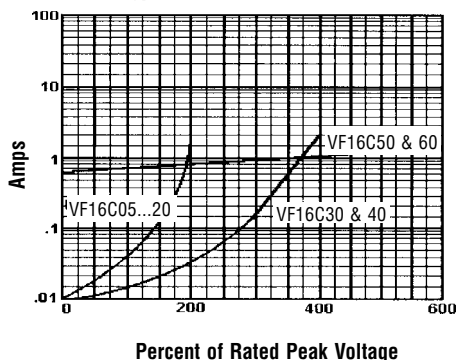
Forward Current Derating Curve



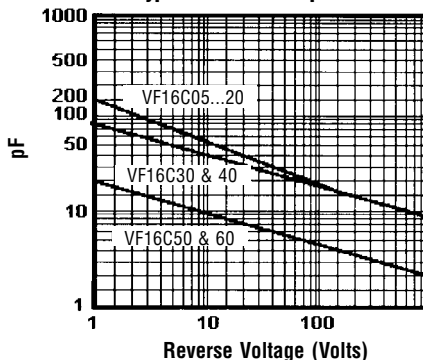
**Non-Repetitive
Peak Forward Surge Current**



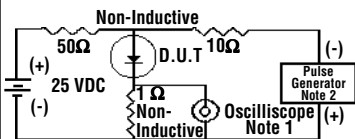
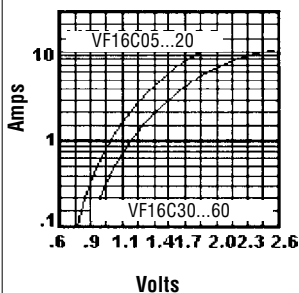
Typical Reverse Characteristics



Typical Junction Capacitance



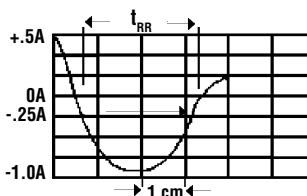
**Typical Instantaneous
Forward Characteristics**



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**



Time Base Set @ 50/100nS/cm

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%.