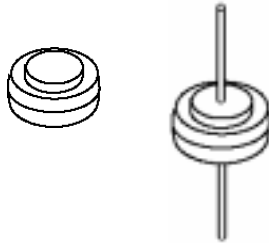
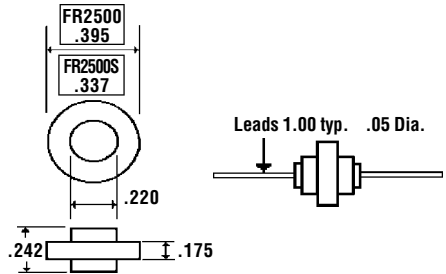


Description



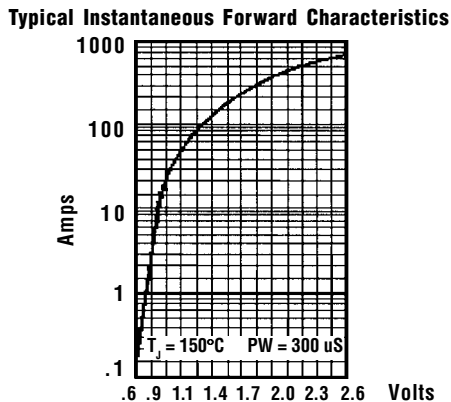
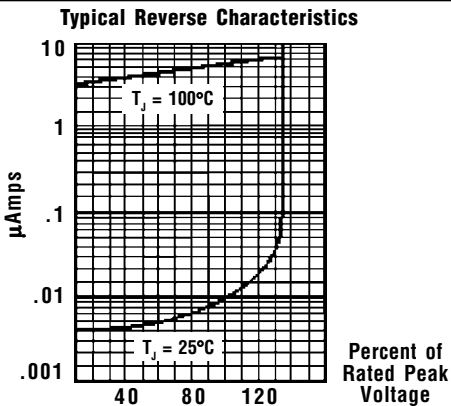
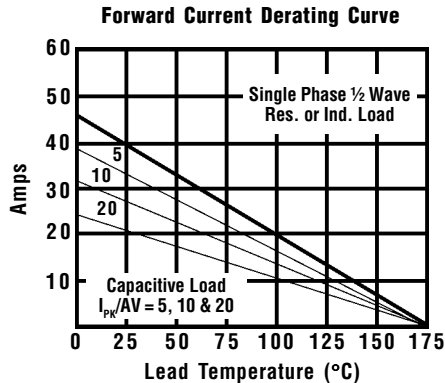
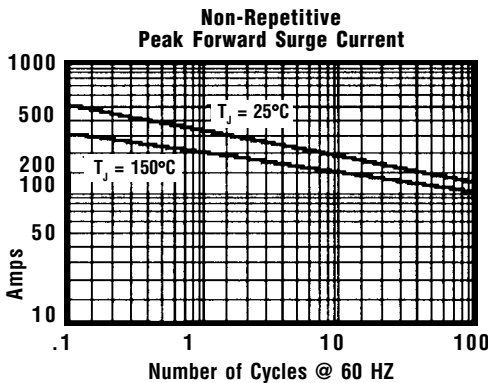
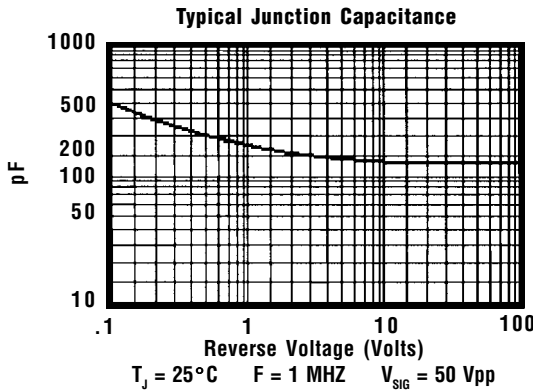
Mechanical Dimensions



Features

- **LOW COST**
- **HIGH SURGE CAPABILITY**
- **DIFFUSED JUNCTION**
- **LOW LEAKAGE CURRENT**
- **VERY FAST RECOVERY TIME (t_{RR})**
- **MEETS UL SPECIFICATION 94V-0**

Electrical Characteristics @ 25°C.	VFR2501 . . . 2510 Series							Units	
Maximum Ratings	VFR2501	VFR2502	VFR2503	VFR2504	VFR2506	VFR2508	VFR2510		
Peak Repetitive Reverse Voltage... V_{RRM}	100	200	300	400	600	800	1000	Volts	
RMS Reverse Voltage... $V_{R(rms)}$	70	140	210	280	420	560	700	Volts	
DC Blocking Voltage... V_{DC}	100	200	300	400	600	800	1000	Volts	
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^\circ\text{C}$ (Note 3)				25				Amps	
Repetitive Peak Forward Surge Current... I_{FM} @ Rated V_R , Square Wave, 20 KHZ, $T_C = 150^\circ\text{C}$				30				Amps	
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, 1/2 Wave, Single Phase, 60 HZ				300				Amps	
Forward Voltage... V_f @ $I_f = 15$ Amps, $PW = 300 \mu\text{S}$, $T_C = 150^\circ\text{C}$				< 0.880 >	< 1.12 >	< 1.34 >		Volts	
				< 0.975 >	< 1.3 >	< 1.5 >		Volts	
DC Reverse Current... I_R @ Rated DC Blocking Voltage $T_C = 150^\circ\text{C}$				500				μAmps	
				10				μAmps	
Typical Reverse Recovery Time... t_{RR} $I_f = 1.0$ Amp, $di/dt = 50$ Amps/ μS			150			200			nS
Operating & Storage Temperature Range... T_J, T_{STRG}								-65 to 175	$^\circ\text{C}$



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%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance Junction to Ambient, Jedec Method.
 3. When Mounted to heat sink, from body.