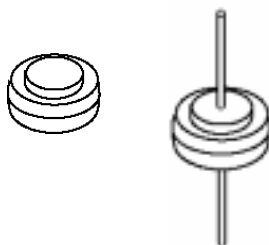
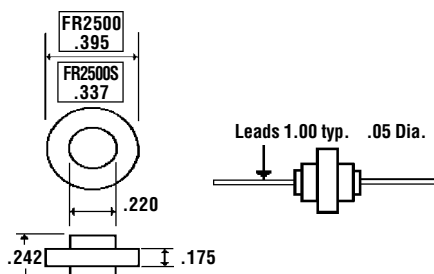
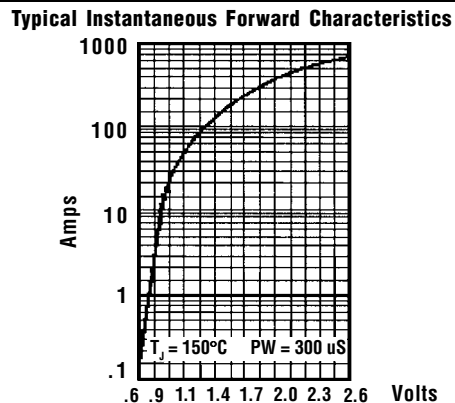
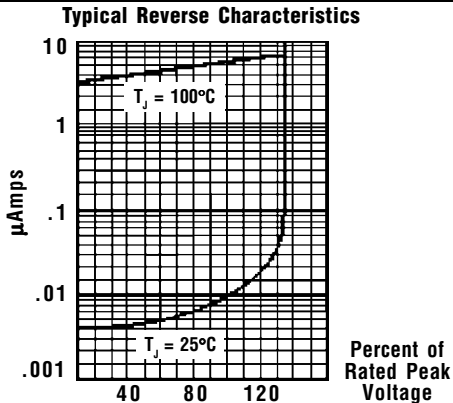
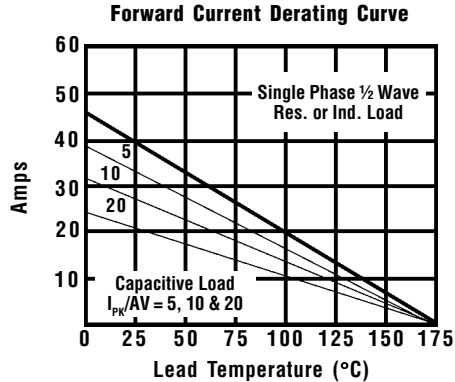
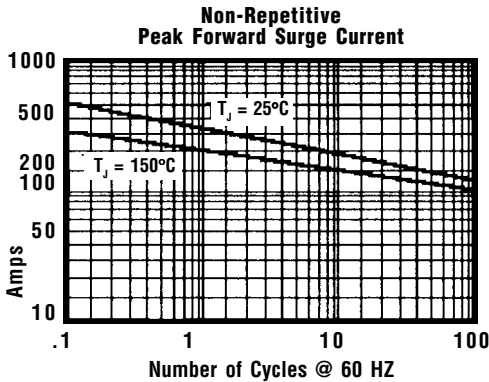
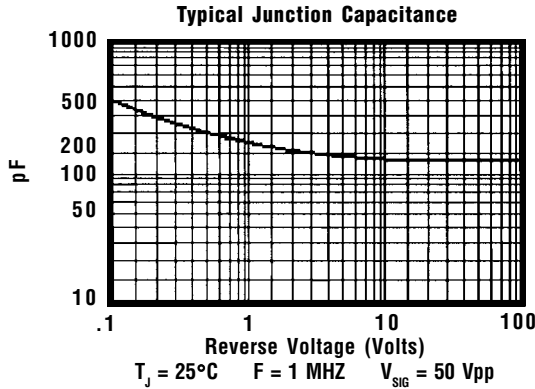


Description

Mechanical Dimensions

Features

- **LOW COST**
- **HIGH SURGE CAPABILITY**
- **DIFFUSED JUNCTION**
- **LOW LEAKAGE CURRENT**
- **HIGH TEMPERATURE CAPABILITY**
- **MEETS UL SPECIFICATION 94V-0**

Electrical Characteristics @ 25°C.	FR2501 . . . 2510 Series							Units
Maximum Ratings	FR2501	FR2502	FR2503	FR2504	FR2506	FR2508	FR2510	
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
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	.....			400	.....			Amps
Forward Voltage @ 80A... V_F	< 1.1 >		< 1.2 >					Volts
DC Reverse Current... I_R @ Rated DC Blocking Voltage, 150°C	.....			2.0	.....			μAmps
	.....			250	.....			μAmps
Typical Junction Capacitance... C_J (Note 1)	< 200 >		< 300 >					pF
Typical Thermal Resistance... $R_{\theta JC}$ (Note 2)	.....			1.0	.....			°C / W
Typical Reverse Recovery Time... t_{RR}	.....			3.0	.....			μS
Operating & Storage Temperature Range... T_J, T_{STRG}	.....			-65 to 175	.....			°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.