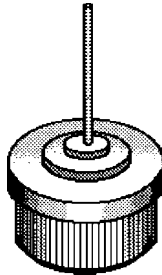
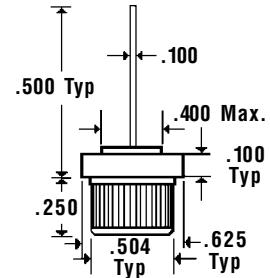


Description



Mechanical Dimensions

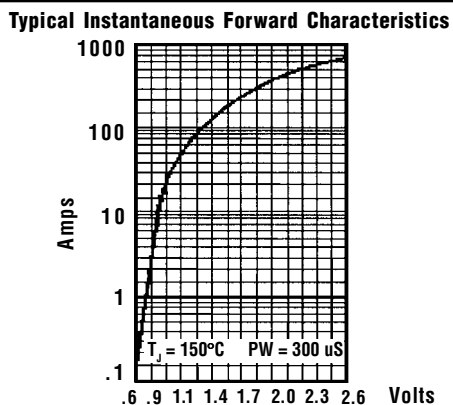
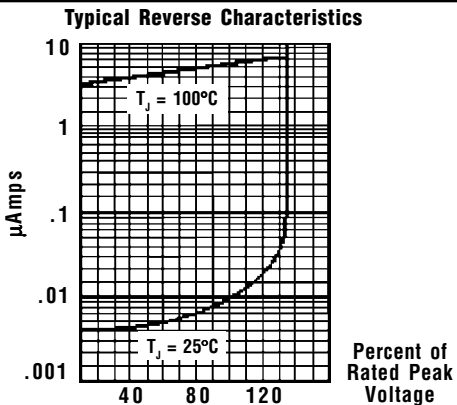
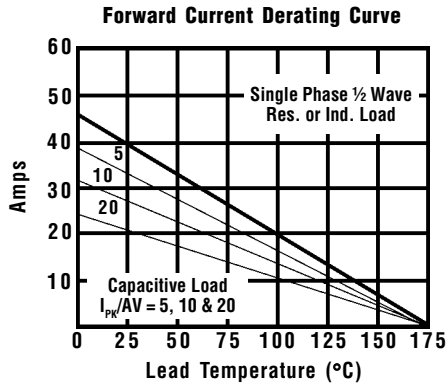
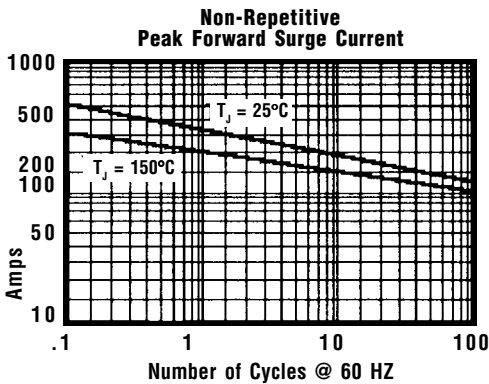
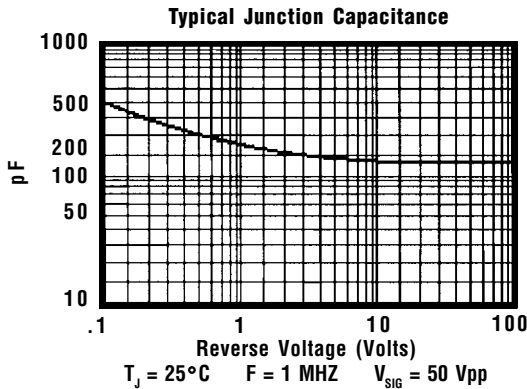
PFRXXXX = +
PFRXXXXA = -



Features

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

Electrical Characteristics @ 25°C.	<i>PFR2501 . . . 2510 Series</i>							Units	
Maximum Ratings	PFR2501	PFR2502	PFR2503	PFR2504	PFR2506	PFR2508	PFR2510		
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 @ 25A... V_F	<			1.05	>			Volts	
DC Reverse Current... I_R @ Rated DC Blocking Voltage, 150°C				10				μAmps	
				250				μAmps	
Typical Junction Capacitance... C_j (Note 1)	<		200	>		<		300	pF
Typical Thermal Resistance... $R_{\theta JC}$ (Note 2)				0.8				°C / W	
Typical Reverse Recovery Time... t_{RR}				3.0				μS	
Operating & Storage Temperature Range... T_J, T_{STRG}				-50 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.