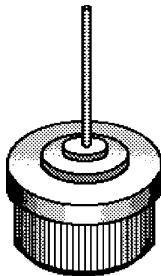
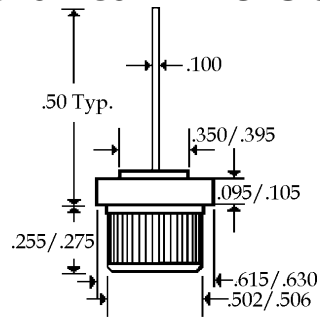


## Description



## Mechanical Dimensions

PFRXXXX = +  
PFRXXXXA = -

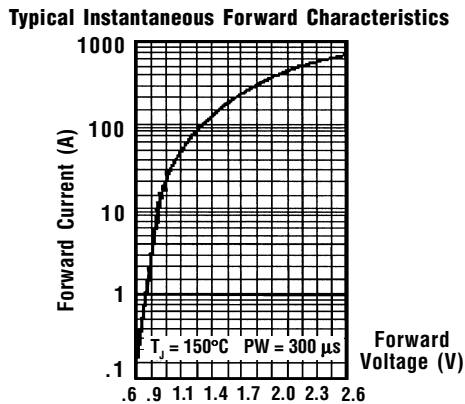
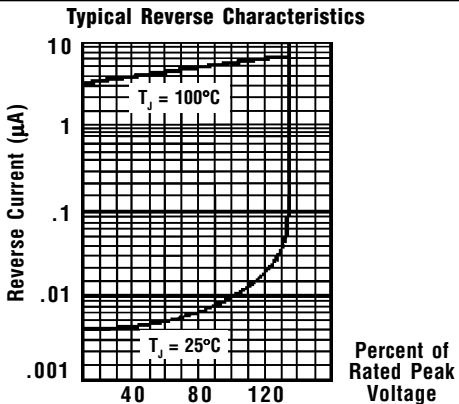
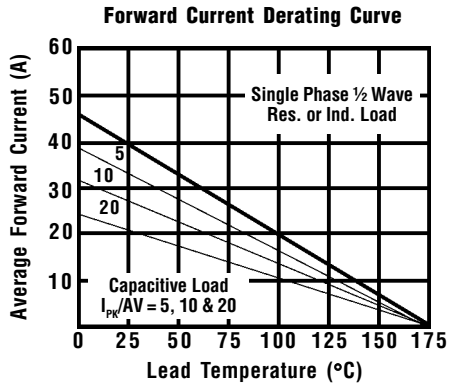
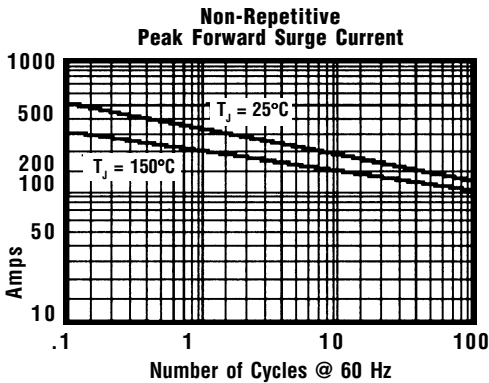
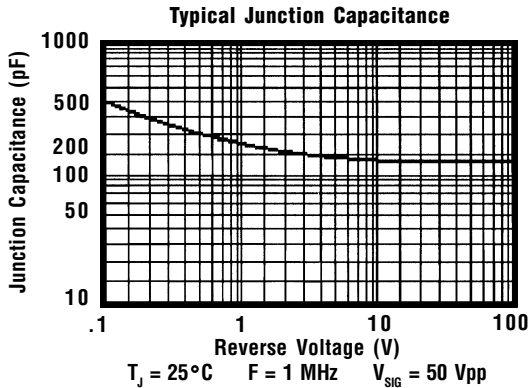


(Dimensions in inches)

## Features

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

PFR2501 ... 2510 Series								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
Operating & Storage Temperature Range... $T_J, T_{STRG}$	-50 to 175							$^\circ\text{C}$
<b>Electrical Characteristics</b>								
Maximum Forward Voltage @ 25A... $V_F$				1.05				Volts
Maximum DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage,	25 $^\circ\text{C}$				10			$\mu\text{Amps}$
	150 $^\circ\text{C}$				250			$\mu\text{Amps}$
Typical Junction Capacitance... $C_j$ (Note 1)	< .....			200	> < .....			pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)				0.8				$^\circ\text{C/W}$
Typical Reverse Recovery Time... $t_{RR}$				3.0				$\mu\text{s}$



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.