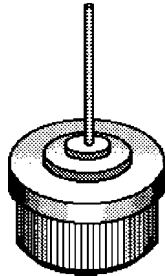
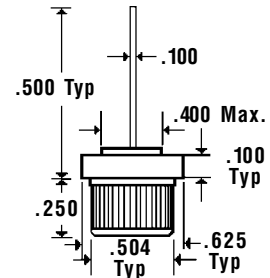


Description



Mechanical Dimensions

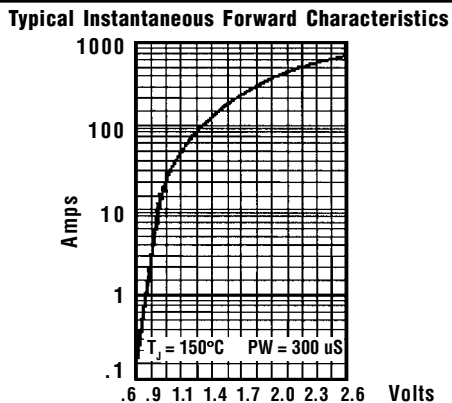
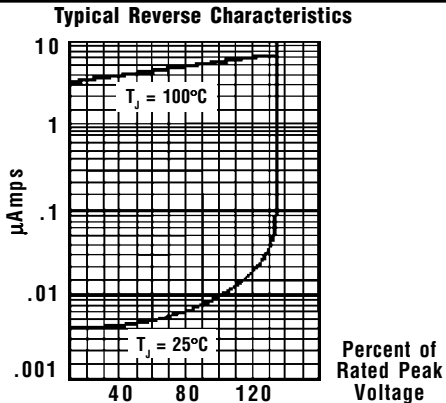
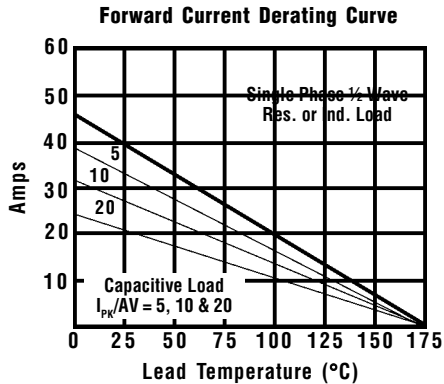
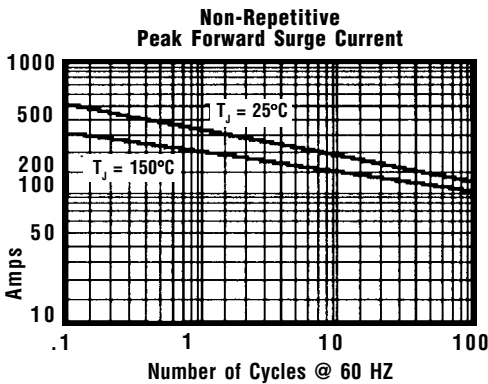
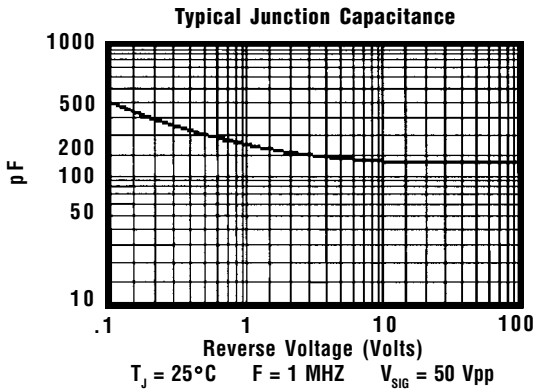
PFRXXXX = +
PFRXXXXA = -



Features

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

| Electrical Characteristics @ 25°C. | <i>PFR3501 . . . 3510 Series</i> | | | | | | | Units | |
|---|----------------------------------|---------|---------|------------|---------|---------|---------|------------------|----|
| Maximum Ratings | PFR3501 | PFR3502 | PFR3503 | PFR3504 | PFR3506 | PFR3508 | PFR3510 | | |
| 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) | | | | 35 | | | | Amps | |
| Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp | | | | 500 | | | | Amps | |
| Forward Voltage @ 35A... V_F | < | | | 1.08 | > | | | Volts | |
| DC Reverse Current... I_R @ Rated DC Blocking Voltage, 150°C | | | | 10 | | | | μAmps | |
| | | | | 250 | | | | μAmps | |
| Typical Junction Capacitance... C_J (Note 1) | < | | 250 | > | | < | | 350 | 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.