Data Sheet

35Amp 1/2" Pressfit 1.0mm LEAD Auto Rectifiers

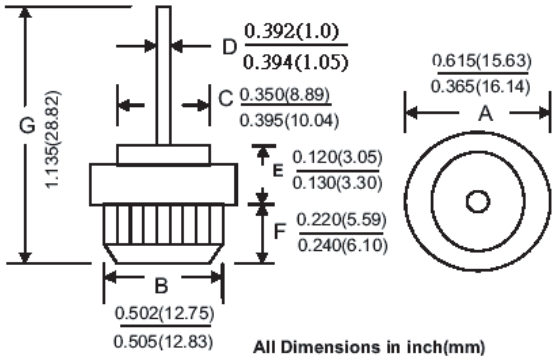
PFR3501~3506 N/ P

DESCRIPTION



PRESS-FIT

MECHANICAL DIMENSIONS



All Dimensions in inch(mm)

Features

- Low Cost
- Super Cool
- Long life Features
- High Current Capability

NOTE:

- 1.PFR350XP Positive (Forward), (+) Cathode To Case,Color Code Red
- 2.PFR350XN Negative(Reverse),(-): Anode To Case, Color Code Black

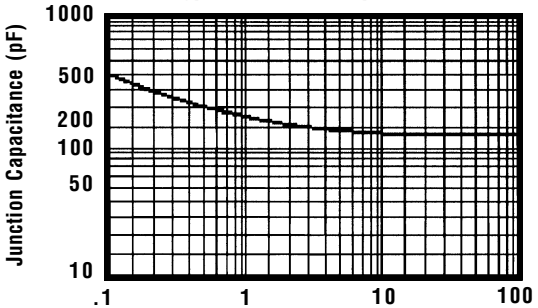
Electrical Characteristics@25C	Symbol	PFR3501P PFR3501N	PFR3502P PFR3502N	PFR3504P PFR3504N	PFR3506P PFR3506N	Unit
Average Forward Current, Io at Tc=150C 60HZ, Resistive Or Inductive Load	IF	35				A(DC)
Peak Reverse Voltage, Repetitive:VRRM	VRRM	100	200	400	600	V(DC)
DC Reverse Voltage, VR	V(DC)	100	200	400	600	
Maximum RMS Voltage	VRMS	70	140	280	420	
Max. Inst Forward Voltage Drop. VF at 80Amp	VF	1.15				V
Peak Forward Surge Current, IFM(surge): 8.3ms. Single Half Sine-Wave Superimposed On Rated Load (JEDEC method)	IFSM	400				A
Maximum Reverse Current IR At Rated DC Reverse Voltage. TC= 25C	IR	10				uA
Maximum Reverse Current IR At Rated DC Reverse Voltage. TC=100C	IR	500				uA
Maximum Thermal Resistance, Junction To Case (single side cooled)	$R_{\theta JA}$	1.2				C/W
Operating And Storage Temperature Range	Tj; Tstrg	-65 to +175				C

Data Sheet

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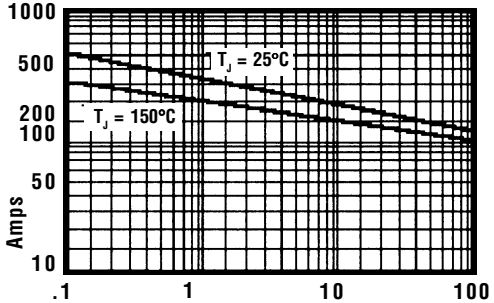
PFR3501~3506P/N

Typical Junction Capacitance

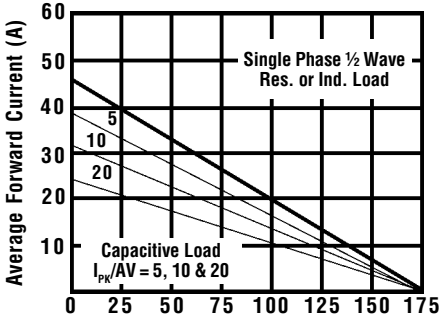


T_J = 25°C F = 1 MHz V_{SIG} = 50 Vpp

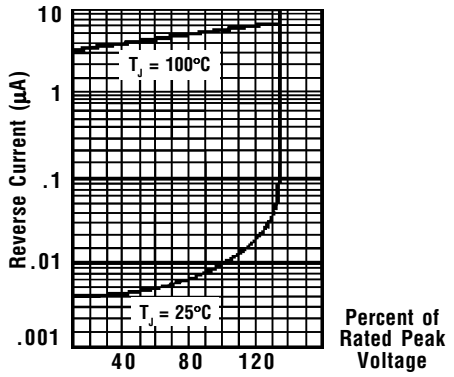
Non-Repetitive Peak Forward Surge Current



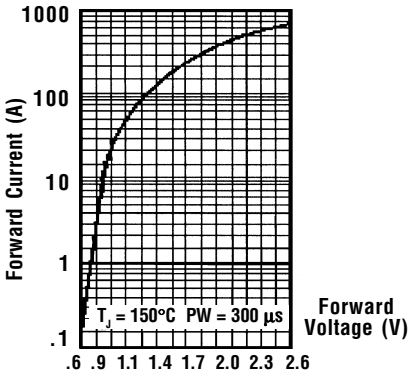
Forward Current Derating Curve



Typical Reverse Characteristics



Typical Instantaneous Forward Characteristics



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.