



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311 Phone: (818) 701-4933

Fax: (818) 701-4939

PF501 thru PF505

Features

- Low Cost
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- For Automotive Applications

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Standard polarity: Case is Cathode; Lead is Anode Note for positive terminal part number is as shown PF501 For negative terminal add an "N" to the suffix of the part number. i.e. PF501N

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak	Voltage	Blocking
		Reverse		Voltage
		Voltage		
PF501		50V	35V	50V
PF502		100V	70V	100V
PF503		200V	140V	200V
PF504		400V	280V	400V
PF505		600V	420V	600V

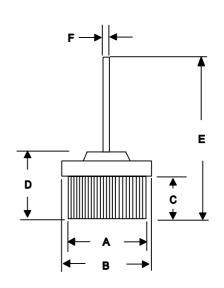
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	50A	T _A = 125°C
Peak Forward Surge Current	I _{FSM}	650A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} = 50A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 500μΑ	T _J = 25°C T _J = 100°C
Typical Junction Capacitance	CJ	150pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

50Amp Standard Recovery Rectifier 50 to 600 Volts

PRESSFIT

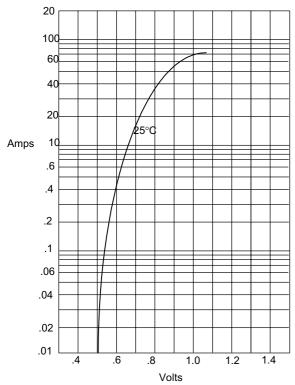


DIMENSIONS								
	INCHES		MM					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	0.501	0.505	12.73	12.82				
В	0.621	0.629	15.77	15.97				
С	0.224	0.232	5.70	5.90				
D	0.378	0.390	9.60	9.90				
Е	1.102		28.00					
F	0.048	0.052	1.22	1.32				



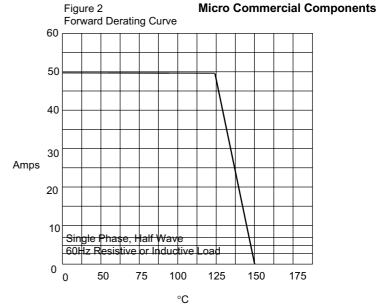
 $\cdot M \cdot C \cdot C \cdot$

Figure 1
Typical Forward Characteristics



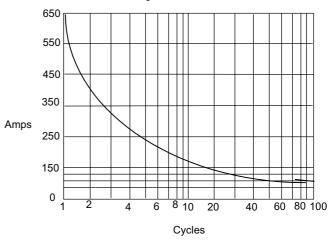
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts





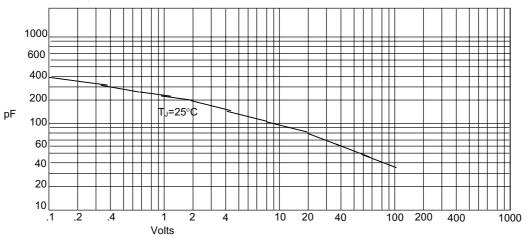
Average Forward Rectified Current - Amperes/ersus Ambient Temperature - $^{\circ}$ C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 3
Junction Capacitance



Junction Capacitance - pF*versus* Reverse Voltage - Volts



Micro Commercial Components

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical,

Aerospace or Military Applications.