

PF251
THRU
PF255

Features

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

Maximum Ratings

- Standard polarity : Case is Cathode ; Lead is Anode
Note for positive terminal part number is as shown: PF251P
For negative terminal add an "N" to the suffix of the part number . i.e. PF251N
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
PF251	---	50V	35V	50V
PF252	---	100V	70V	100V
PF253	---	200V	140V	200V
PF254	---	400V	280V	400V
PF255	---	600V	420V	600V

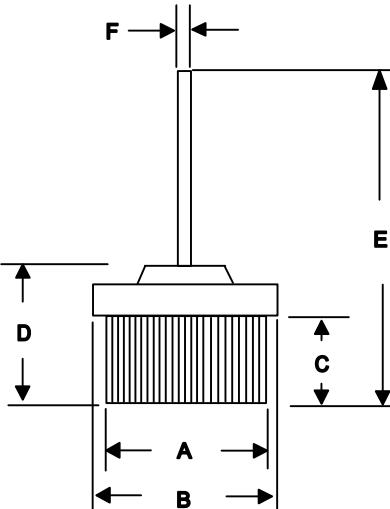
Electrical Characteristics @25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	25A	$T_A = 125^\circ C$
Peak Forward Surge Current	I_{FSM}	400A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 25A$; $T_J = 25^\circ C$ *
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5 μ A 500 μ A	$T_J = 25^\circ C$ $T_J = 100^\circ C$
Typical Junction Capacitance	C_J	65pF	Measured at 1.0MHz, $V_R=4.0V$

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

25Amp
Rectifier
50 to 600 Volts

PRESSFIT



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.501	0.505	12.73	12.82	
B	0.621	0.629	15.77	15.97	
C	0.224	0.232	5.70	5.90	
D	0.378	0.390	9.60	9.90	
E	1.102	-----	28.00	-----	
F	0.048	0.052	1.22	1.32	

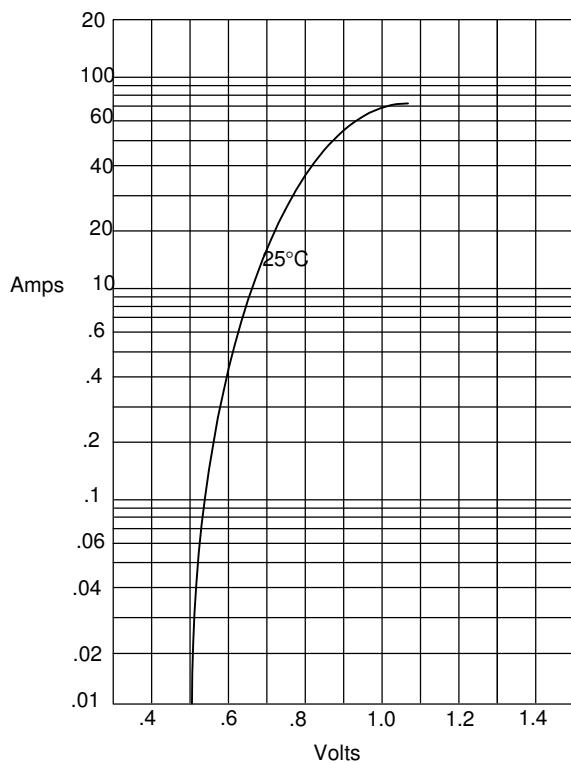
PF251 thru PF255

•M•C•C•

TM

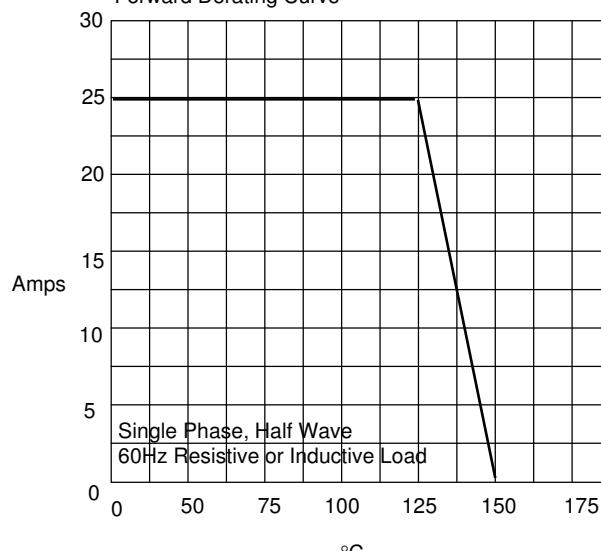
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Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve

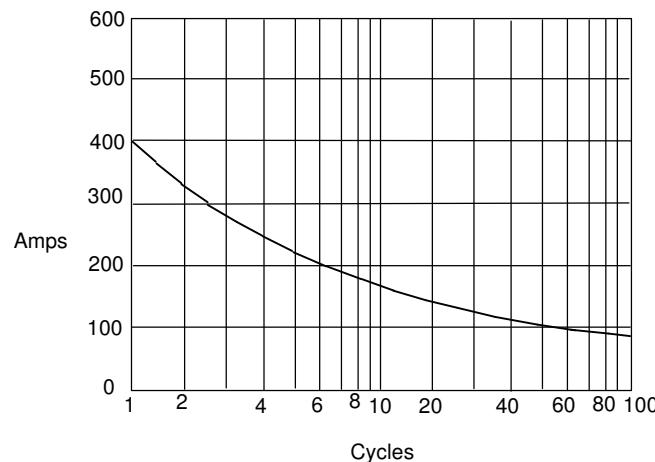


Single Phase, Half Wave
60Hz Resistive or Inductive Load

°C

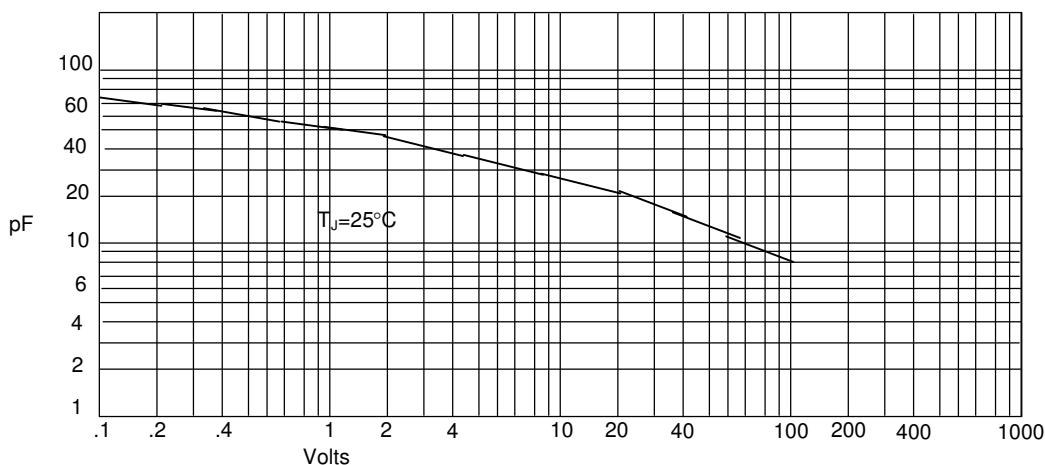
Average Forward Rectified Current - Amperesversus
Ambient Temperature - °C

Figure 4
Peak Forward Surge Current



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

Figure 3
Junction Capacitance



Junction Capacitance - pFversus
Reverse Voltage - Volts

www.mccsemi.com

Ordering Information :

Device	Packing
Part Number-BP	Bulk: 1 Kpcs/Carton

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