

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. PF501NL

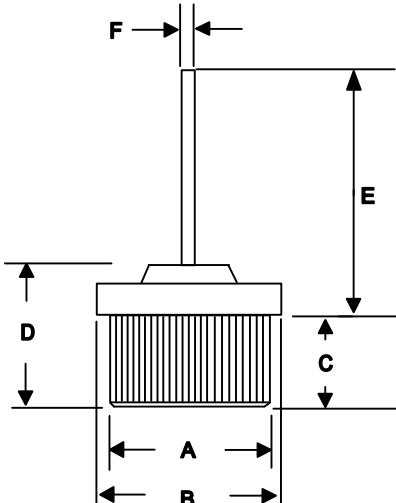
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
PF501L	---	50V	35V	50V
PF502L	---	100V	70V	100V
PF503L	---	200V	140V	200V
PF504L	---	400V	280V	400V
PF505L	---	600V	420V	600V

Electrical Characteristics @25°C unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50A	$T_A = 125^\circ C$
Peak Forward Surge Current	I_{FSM}	500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V 1.1V	$I_{FM} = 50A; T_A=25^\circ C$ $I_{FM} = 100A; T_A=25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5 μ A 500 μ A	$T_J = 25^\circ C$ $T_J = 100^\circ C$
Maximum thermal Resistance, junction to case	R_{thJC}	12°C/W	

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

PRESSFIT



DIMENSIONS					NOTE	
DIM	INCHES		MM			
	MIN	MAX	MIN	MAX		
A	0.502	0.505	12.75	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	0.600	0.700	15.24	17.78		
F	0.097	0.103	2.43	2.62		

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

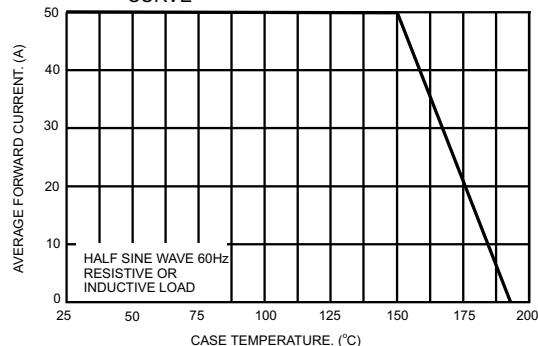


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

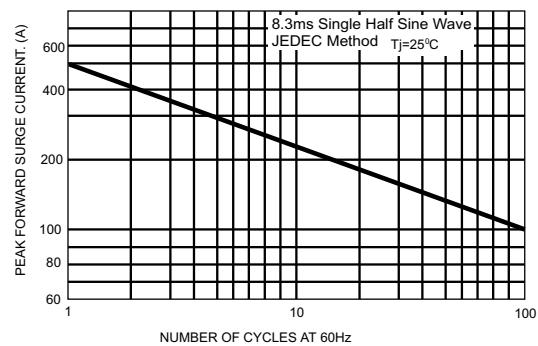


FIG.3- TYPICAL FORWARD CHARACTERISTICS

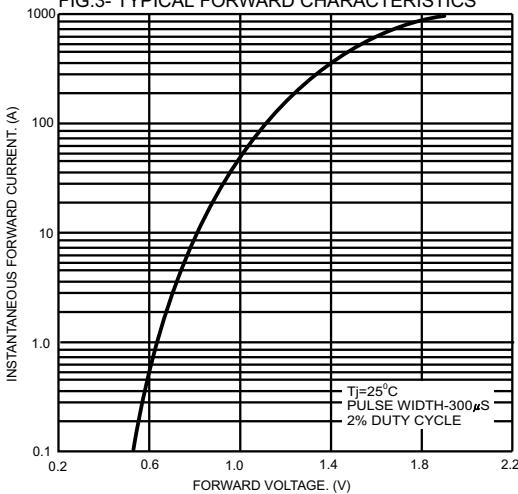
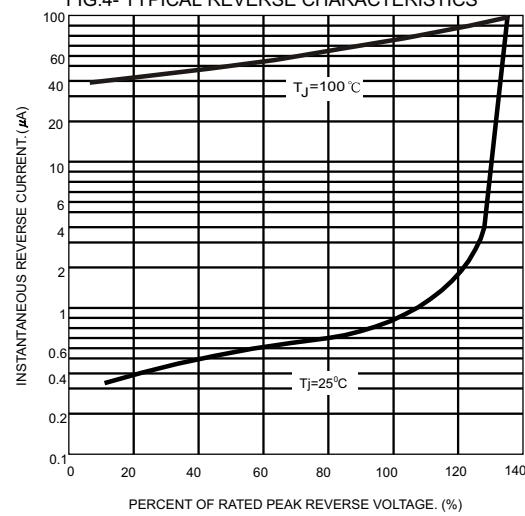


FIG.4- TYPICAL REVERSE CHARACTERISTICS



TM

Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-BP	Bulk;100pcs/Box

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