DACO SEMICONDUCTOR CO.,LTD.

PFBM5022 THRU PFBM5039

TRANSIENT VOLTAGE SUPPRESSOR TYPE 50A

50Amp
DIODE

PRESS - FIT
BOSCH

Features

- High Surge Capability
- High Current Capability
- Low leakage

Maximum Ratings

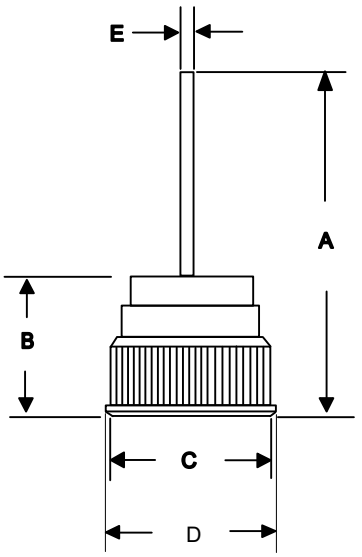
Operating Temperature: -65 ℃ to +175 ℃
Storage Temperature: -65 ℃ to +175 ℃

Part Number	Blocking Voltage AT I_Z		Reverse Current I_Z	Maximum Reverse Current AT V_R		Reverse Voltage V_R
	MIN	MAX		25℃	150℃	
PFBM5022	20V	24V	100mA	0.20uA	50uA	16V
PFBM5025	24V	32V	100mA	0.20uA	50uA	20V
PFBM5039	37V	41V	100mA	0.20uA	50uA	28V

Electrical Characteristics @ 25 ℃ Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50 A	T_C= 150℃
Peak Forward Surge Current	I_{FSM}	500A	8.3ms , Halfsine
Maximum Instantaneous Forward Voltage *	V_F	1.05V	I_{FM} = 100A; T_J = 25 ℃
Forward Voltage Temperature Coefficient @IF=10mA	VFTC	2mV/℃	

*Pulse Test: Pulse Width 300 usec, Duty Cycle 2%



Notes:
1.Standard Polarity:Lead is Cathode
2.Reverse Polarity: Lead is Anode

DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.68	0.71	17.20	18.20	
B	0.38	0.39	9.70	10.00	
C	0.503	0.506	12.78	12.84	
D	0.509	0.511	12.92	12.98	
E	0.057	0.058	1.45	1.50	

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

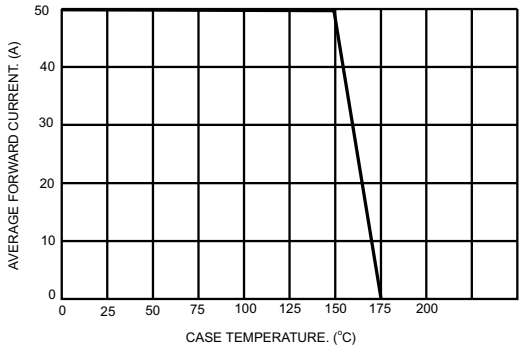


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

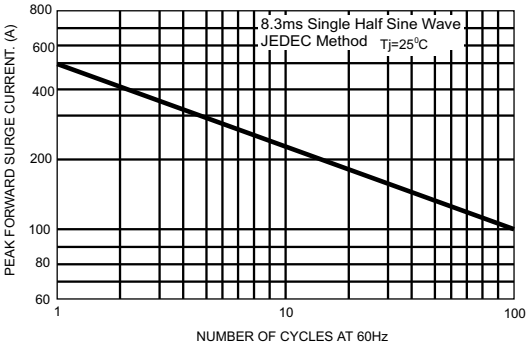


FIG.3- TYPICAL FORWARD CHARACTERISTICS

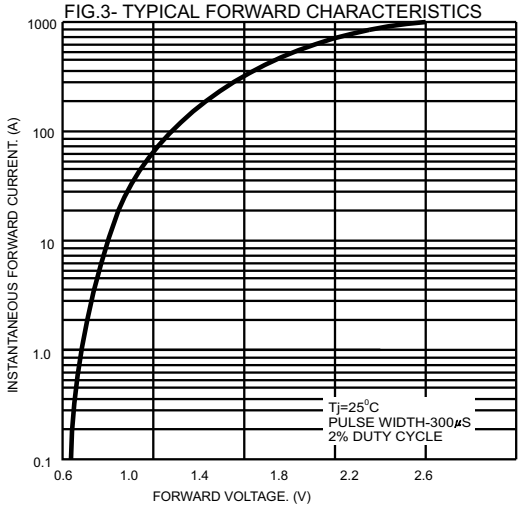


FIG.4-TYPICAL CAPACITANCE VS STAND-OFF VOLTAGE

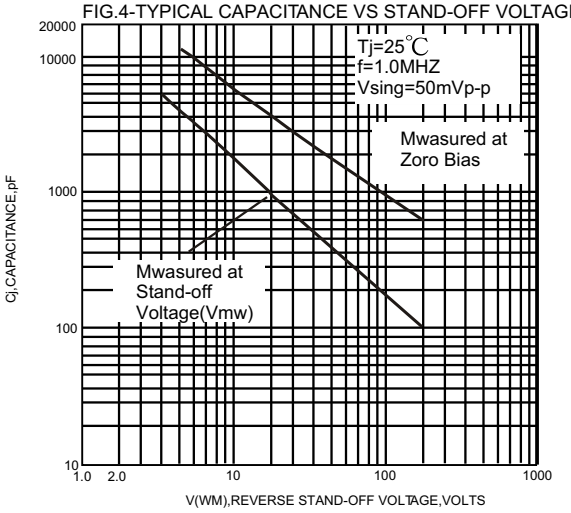


FIG.5-PULSE WAVEFORM

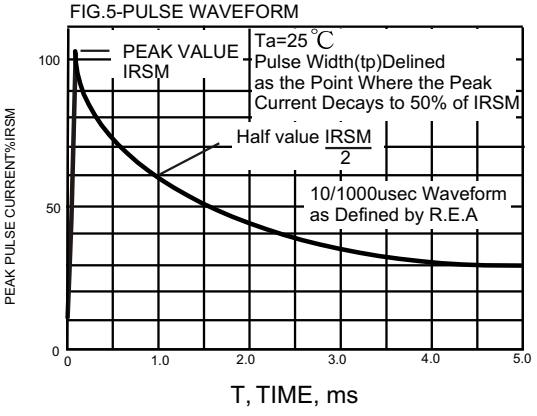


FIGURE .6- PULSE RATING CURVE