



TRANSIENT VOLTAGE SUPPRESSOR TYPE 50A

Features

- High Surge Capability
- High Current Capability
- Low leakage

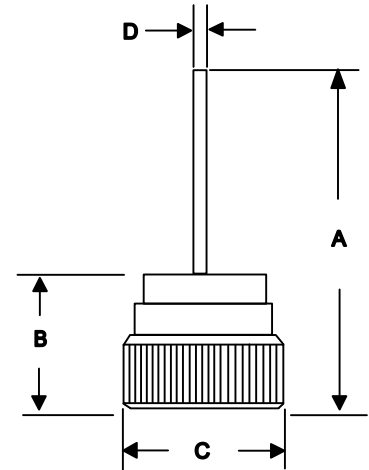
50Amp
DIODE

Maximum Ratings

Operating Temperature: -65 °C to +175 °C
 Storage Temperature: -65 °C to +175 °C

PRESS - FIT
BOSCH

Part Number	Blocking Voltage AT I _Z		Reverse Current I _Z	Maximum Reverse Current AT V _R		Reverse Voltage V _R
	MIN	MAX		25°C	150°C	
PFB5022	20V	24V	100mA	0.20uA	50uA	16V
PFB5025	24V	32V	100mA	0.20uA	50uA	20V
PFB5039	37V	41V	100mA	0.20uA	50uA	28V



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	50 A	T _C = 150°C
Peak Forward Surge Current	I _{FSM}	500A	8.3ms, Halfsine
Maximum Instantaneous Forward Voltage *	V _F	1.05V	I _{FM} = 100A; T _J = 25 °C
Forward Voltage Temperature Coefficient @I _F =10mA	V _{FTC}	2mV/°C	

- Notes:
- Standard Polarity: Lead is Cathode
 - Reverse Polarity: Lead is Anode

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
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	0.057	0.058	1.45	1.50	

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



FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

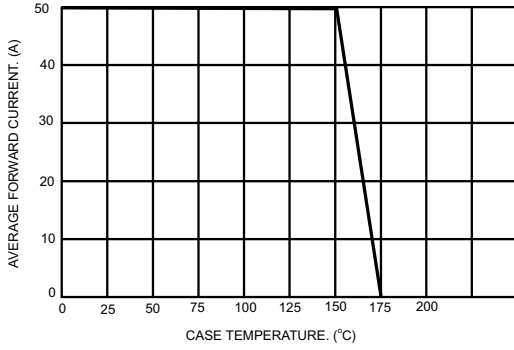


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

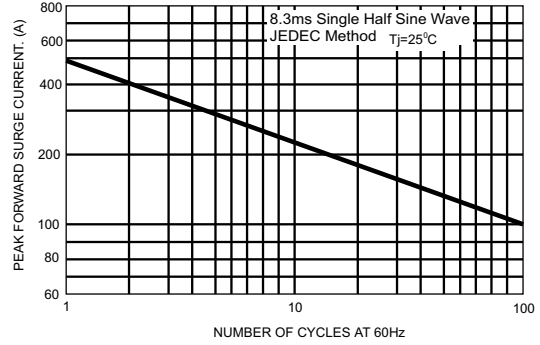


FIG.3- TYPICAL FORWARD CHARACTERISTICS

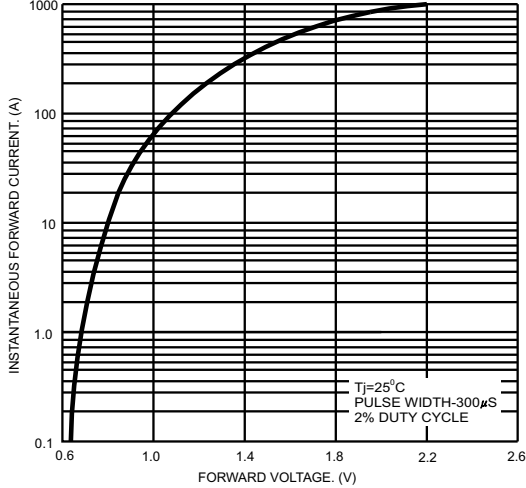


FIG.4- TYPICAL CAPACITANCE VS STAND-OFF VOLTAGE

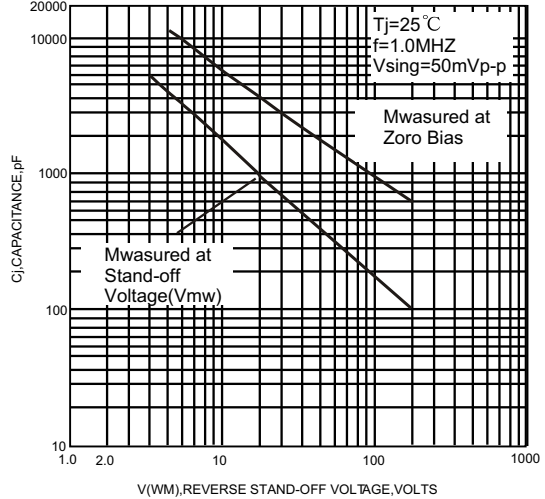


FIG.5-PULSE WAVEFORM

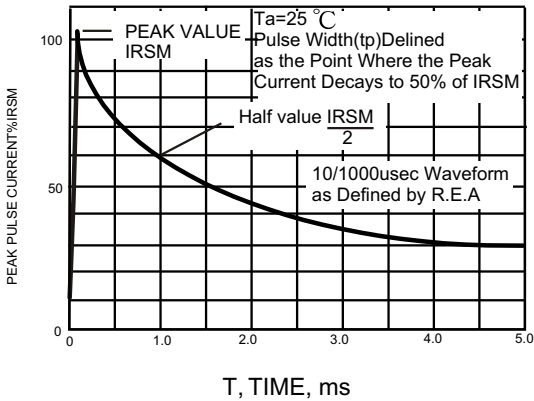


FIGURE 6- PULSE RATING CURVE

