

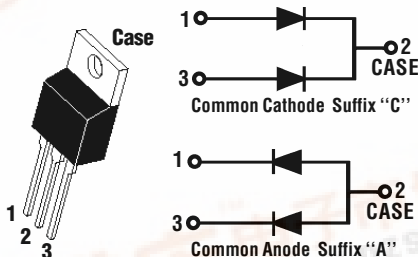


Data Sheet

20 Amp SCHOTTKY BARRIER RECTIFIERS

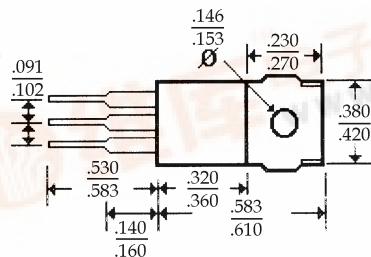
FBR2030 ... 2045 Series

Description



Mechanical Dimensions

JEDEC
TO-220AB

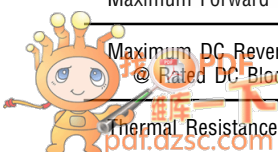


(Dimensions in inches)

Features

- HIGH CURRENT CAPABILITY WITH LOW V_F
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

FBR2030 . . . 2045 Series					Units
Maximum Ratings	FBR2030	FBR2035	FBR2040	FBR2045	
Peak Repetitive Reverse Voltage... V_{RRM} Pulse Test 0.5 ms, Duty Cycle 1/40	30	35	40	45	Volts
Working Peak Reverse Voltage... V_{RWM}	30	35	40	45	Volts
DC Blocking Voltage... V_{DC}	30	35	40	45	Volts
Average Forward Rectified Current... I_o @ $T_c = 110^{\circ}\text{C}$	20				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, Sinusoidal Wave, 60Hz, 1 Cycle, $T_j = 125^{\circ}\text{C}$	250				Amps
Operating Temperature Range... T_j	-40 to 125				$^{\circ}\text{C}$
Storage Temperature Range... T_{STRG}	+ 125				$^{\circ}\text{C}$
Electrical Characteristics					
Maximum Forward Voltage @ 10 A... V_F	.55				Volts
Maximum DC Reverse Current (@ $V_R = V_{RM}$)... I_R @ Rated DC Blocking Voltage	3.0				mAmps
Thermal Resistance, Junction to Case... $R_{\theta JC}$	1.5				$^{\circ}\text{C} / \text{W}$

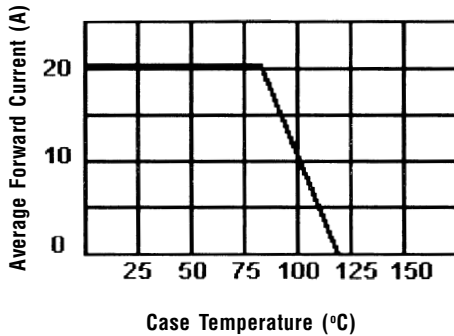




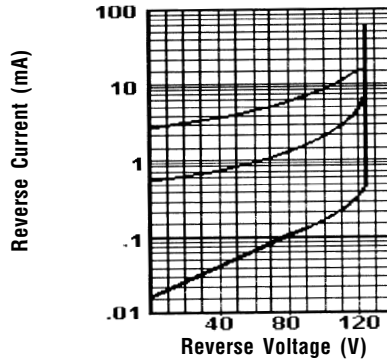
20 Amp SCHOTTKY BARRIER RECTIFIERS

FBR2030....2045 Series

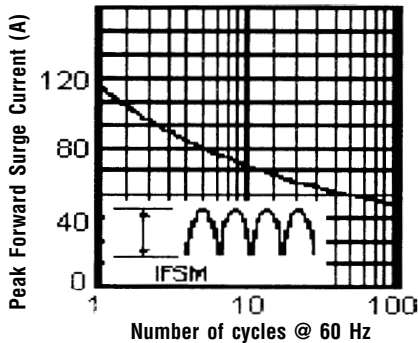
Forward Current Derating Curve



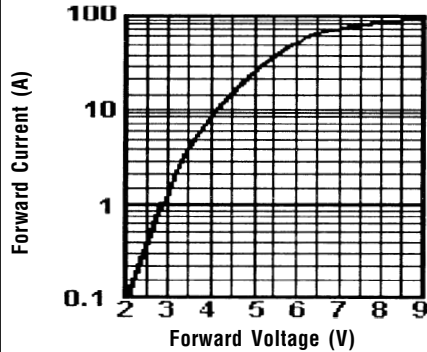
Typical Reverse Characteristics



Maximum Surge Capacity



Typical Forward Characteristics



Ratings at
25 Deg. C ambient
temperature
unless otherwise
specified.

Single Phase Half
Wave, 60 Hz
Resistive or
Inductive Load.

For Capacitive
Load, Derate
Current by 20%.