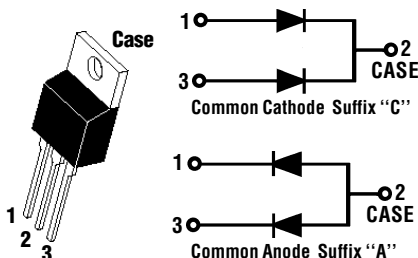
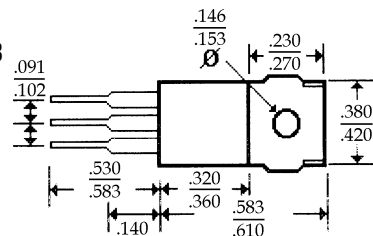


Description



Mechanical Dimensions

JEDEC
TO-220AB



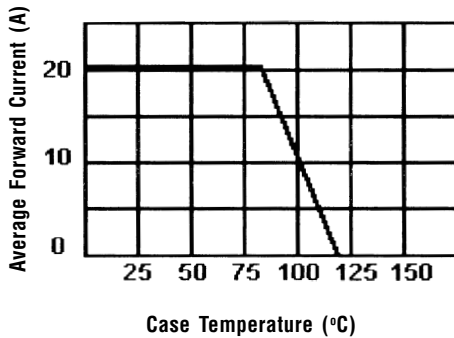
(Dimensions in inches)

Features

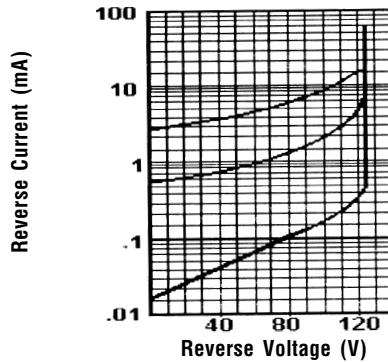
- **HIGH CURRENT CAPABILITY WITH LOW V_F**
- **HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION**
- **HIGH EFFICIENCY w/LOW POWER LOSS**
- **MEETS UL SPECIFICATION 94V-0**

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°C	20				Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} @ Rated Load Conditions, Sinusoidal Wave, 60Hz, 1 Cycle, T _j = 125°C	250				Amps
Operating Temperature Range...T _j	-40 to 125				°C
Storage Temperature Range...T _{STRG}	+ 125				°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 _{θJC}	1.5				°C / W

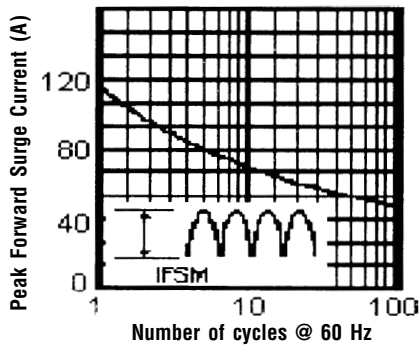
Forward Current Derating Curve



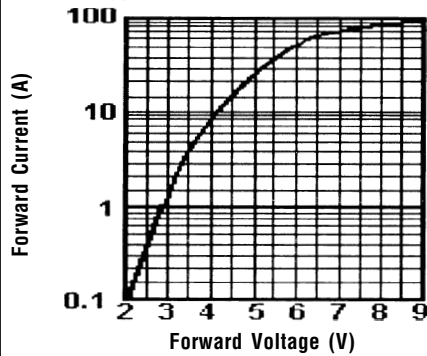
Typical Reverse Characteristics



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%.