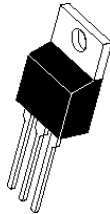
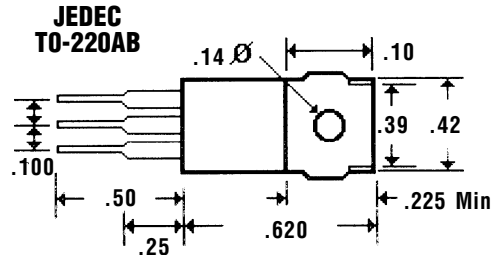


## Description



## Mechanical Dimensions

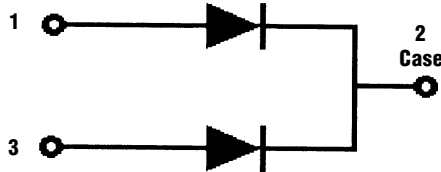


## Features

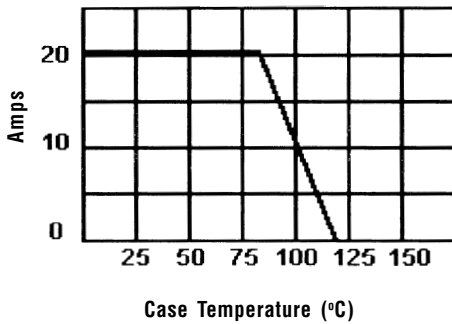
- HIGH CURRENT CAPABILITY WITH LOW  $V_F$
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	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, $T_j = 125^\circ\text{C}$	120				Amps
Forward Voltage @ 20 A... $V_F$	.84				Volts
DC Reverse Current (@ $V_R = V_{RM}$ )... $I_R$ @ Rated DC Blocking Voltage	0.1				mAmps
Thermal Resistance, Junction to Case... $R_{\theta JC}$	1.5				°C / W
Operating Temperature Range... $T_j$	-40 to 125				°C
Storage Temperature Range... $T_{STRG}$	+ 125				°C

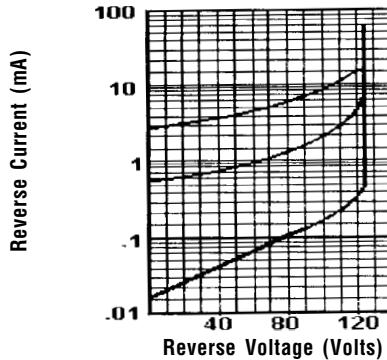
Common Cathode,  
Suffix "C"



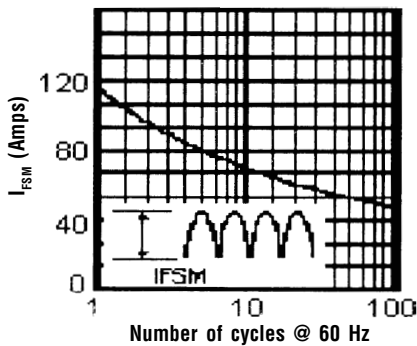
Forward Current Derating Curve



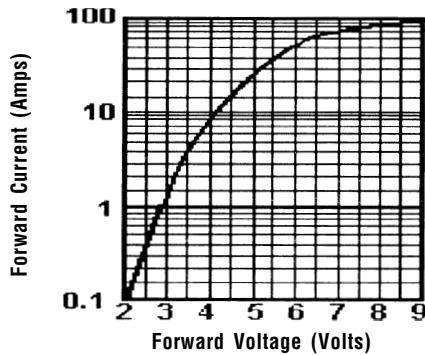
Typical Reverse Characteristics



Maximum Surge Capacity



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%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
  2. Thermal Resistance Junction to Case, Jedec Method.
  3. When Mounted to heat sink, from body.