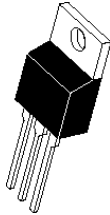
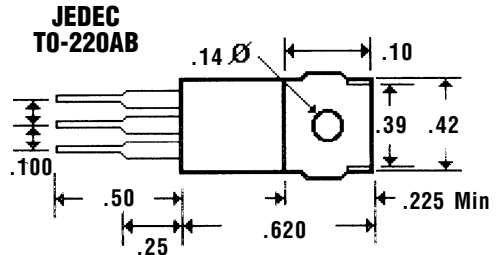


**FBR1535 & 1545**

## Description



## Mechanical Dimensions

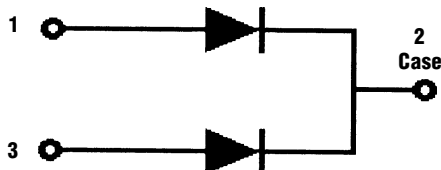


## Features

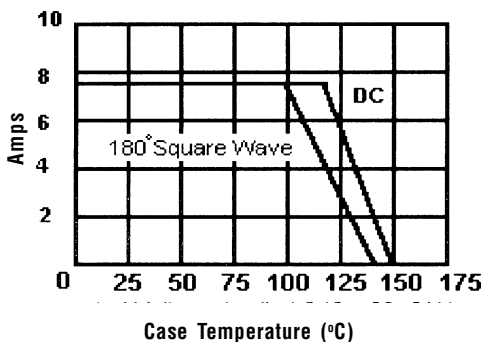
- HIGH CURRENT CAPABILITY W/LOW  $V_F$
- HIGH EFFICIENCY w/LOW POWER LOSS
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- CENTER TAP CONFIGURATION
- 150°C OPERATING JUNCTION TEMPERATURE
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	FBR1535 & 1545		Units
Maximum Ratings	FBR1535	FBR1545	
Peak Repetitive Reverse Voltage... $V_{RRM}$	35	45	Volts
Working Peak Reverse Voltage... $V_{RWM}$	35	45	Volts
DC Blocking Voltage... $V_{DC}$	35	45	Volts
Average Forward Rectified Current... $I_{F(AV)}$ @ $T_C = 105^\circ\text{C}$	Per Diode ..... 7.5	Per Device ..... 15	Amps
Repetitive Peak Forward Surge Current... $I_{FM}$ $T_C = 105^\circ\text{C}$ (Rated $V_F$ , Square Wave, 20KHZ)	Per Diode ..... 15		Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Load Conditions, 1/2 Wave, Single Phase, 60HZ		150	Amps
Repetitive Peak Reverse Surge Current... $I_{RSM}$ 2uS, 1.0 KHZ		1.0	Amps
Forward Voltage... $V_F$ @ $I_F = 7.5$ Amps, $T_C = 125^\circ\text{C}$		.57	Volts
@ $I_F = 15$ Amps, $T_C = 125^\circ\text{C}$		.72	Volts
@ $I_F = 15$ Amps, $T_C = 25^\circ\text{C}$		.84	Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_C = 25^\circ\text{C}$ ..... 0.1	$T_C = 125^\circ\text{C}$ ..... 15	mAmps
Thermal Resistance, Junction to Case... $R_{\theta JC}$		3.0	$^\circ\text{C} / \text{W}$
Thermal Resistance, Junction to Ambient... $R_{\theta JA}$		60	$^\circ\text{C} / \text{W}$
Operating Temperature Range... $T_J$		-65 to 150	$^\circ\text{C}$
Storage Temperature Range... $T_{STG}$		-65 to 175	$^\circ\text{C}$

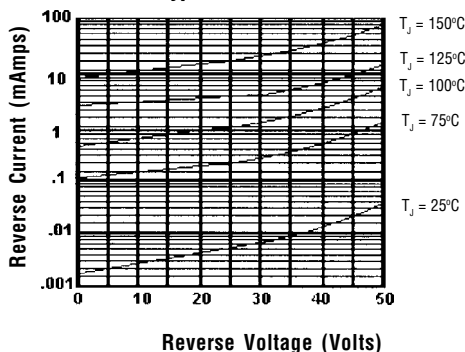
Common Cathode,  
Suffix "C"



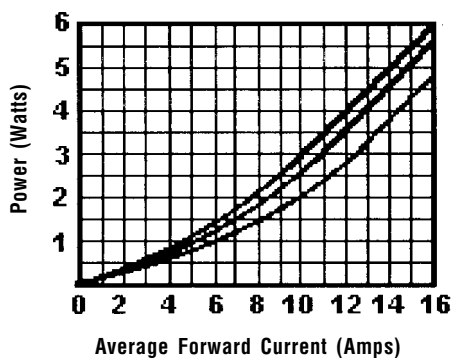
Forward Current Derating Curve



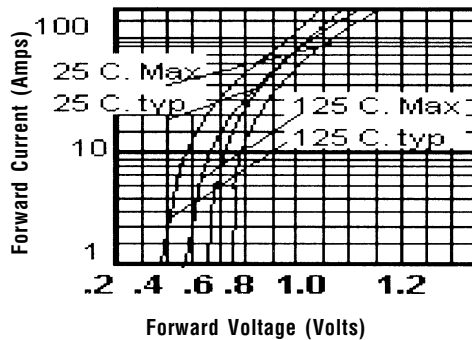
Typical Reverse Current



Forward Power Dissipation



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.