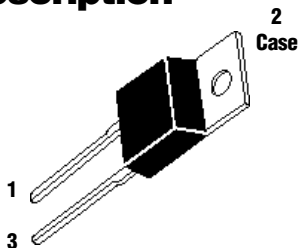
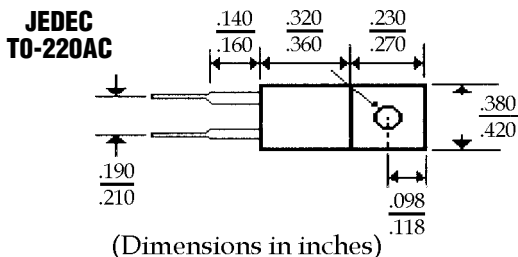


**FBR830...845 Series**

## Description



## Mechanical Dimensions



## Features

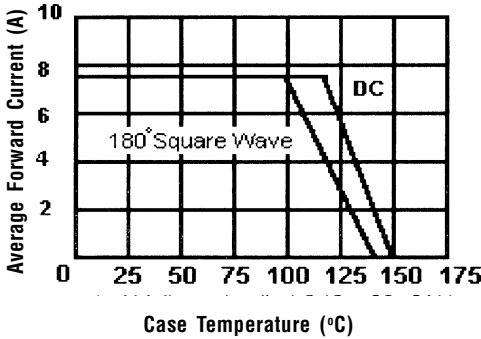
- HIGH CURRENT CAPABILITY WITH LOW  $V_F$
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

<i>FBR830 . . . 845 Series</i>					Units
Maximum Ratings	FBR830	FBR835	FBR840	FBR845	
Peak Repetitive Reverse Voltage... $V_{RRM}$	30	35	40	45	Volts
RMS Reverse Voltage... $V_{RWM}$	30	35	40	45	Volts
DC Blocking Voltage... $V_{DC}$	30	35	40	45	Volts
Average Forward Rectified Current... $I_o$ $T_c = 105^\circ\text{C}$	8.0				Amps
Repetitive Peak Forward Surge Current... $I_{FM}$	16				Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Current & Temp	120				Amps
Repetitive Peak Reverse Surge Current... $I_{RSM}$ Sinosoidal Wave, 60Hz, 1 Cycle, $T_j = 125^\circ\text{C}$	1.0				Amps
Operating Temperature Range... $T_j$	-65 to 150				°C
Storage Temperature Range... $T_{STRG}$	-65 to 175				°C
<b>Electrical Characteristics</b>					
Maximum Forward Voltage... $V_F$ @ $I_F = 8.0$ 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
Maximum DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_L = 25^\circ\text{C}$	2.0			mAmps
	$T_L = 125^\circ\text{C}$	15			mAmps
Maximum Thermal Resistance... $R_{\theta JC}$	3.0				°C / W
Maximum Thermal Resistance... $R_{\theta JA}$	60				°C / W

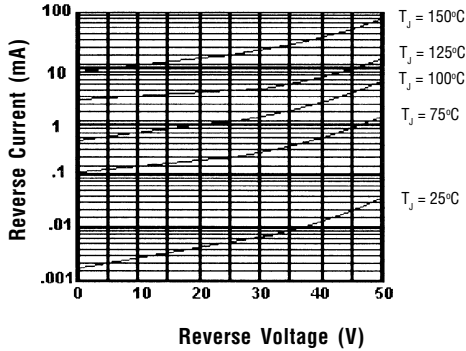
# 8.0 Amp SCHOTTKY BARRIER RECTIFIERS

**FBR830...845 Series**

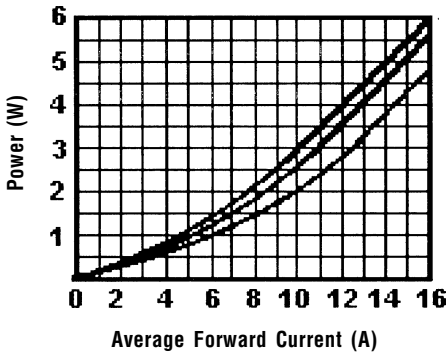
**Forward Current Derating Curve**



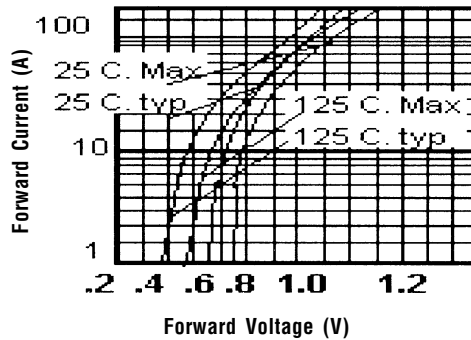
**Typical Reverse Characteristics**



**Forward Power Dissipation**



**Typical Forward Characteristics**

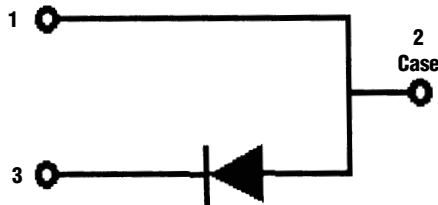


**Electrical Description**

Case Cathode, No Suffix Required



Case Anode, Use Suffix "R"



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%.