

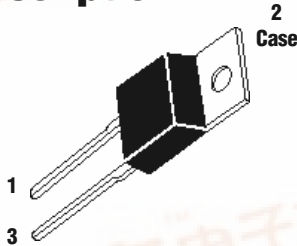


Data Sheet

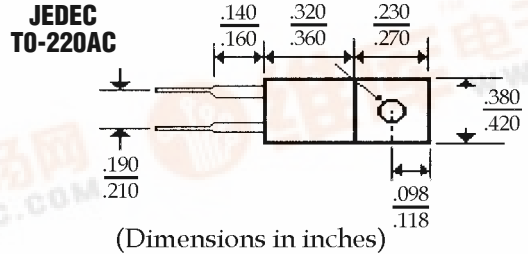
8.0 Amp SCHOTTKY BARRIER RECTIFIERS

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

<b>FBR830 . . . 845 Series</b>					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... $I_o$ $T_c = 105^\circ C$	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, $T_J = 125^\circ C$	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, $T_C = 125^\circ C$	.57				Volts
@ $I_F = 15$ Amps, $T_C = 125^\circ C$	.72				Volts
@ $I_F = 15$ Amps, $T_C = 25^\circ C$	.84				Volts
Maximum DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	2.0				mAmps
$T_L = 25^\circ C$	15				mAmps
$T_L = 125^\circ C$	3.0				°C / W
Maximum Thermal Resistance... $R_{\theta JC}$	60				°C / W
Maximum Thermal Resistance... $R_{\theta JA}$	60				°C / W

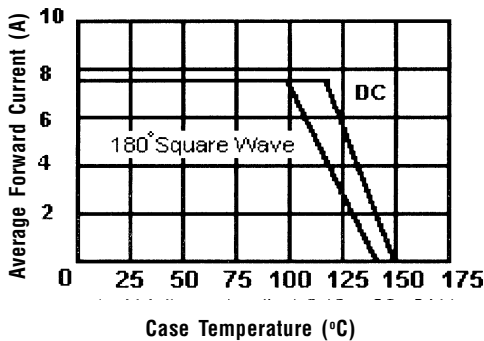




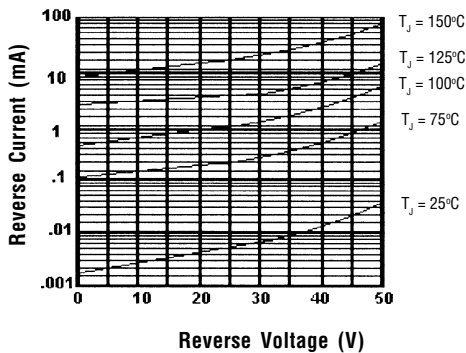
# 8.0 Amp SCHOTTKY BARRIER RECTIFIERS

**FBR830...845 Series**

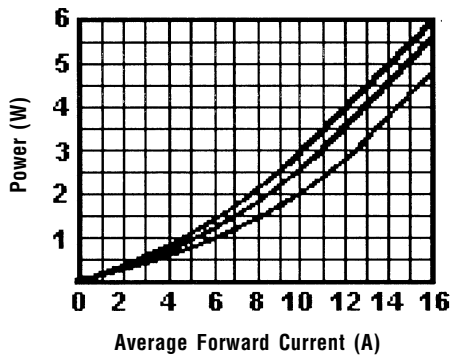
**Forward Current Derating Curve**



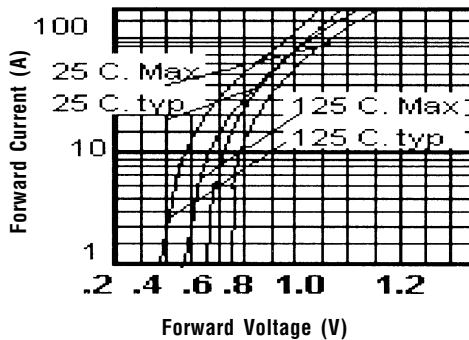
**Typical Reverse Characteristics**



**Forward Power Dissipation**



**Typical Forward Characteristics**

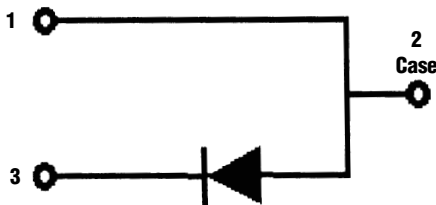


**Electrical Description**

**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%.