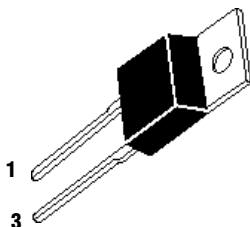
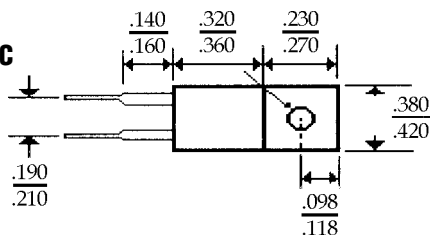


Description



2
Case

**JEDEC
TO-220AC**



(Dimensions in inches)

Features

- **HIGH CURRENT CAPABILITY
WITH LOW V_F**
- **SUPERIOR METAL PROCESS**

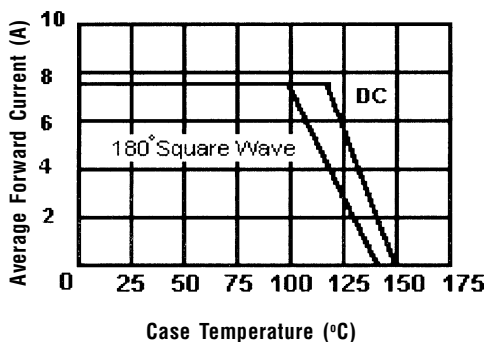
- **HIGH SURGE VOLTAGE AND
TRANSIENT PROTECTION**
- **MEETS UL SPECIFICATION 94V-0**

FBR735 . . . 745 Series				Units
Maximum Ratings	FBR735	FBR740	FBR745	
Peak Repetitive Reverse Voltage... V_{RRM}	35	40	45	Volts
Working Peak Reverse Voltage... V_{RWM}	35	40	45	Volts
DC Blocking Voltage... V_{DC}	35	40	45	Volts
RMS Reverse Voltage... $V_{R(rms)}$	24	28	31	Volts
Average Forward Rectified Current... $I_{F(av)}$ @ $T_C = 110^\circ C$	7.5			Amps
Repetitive Peak Forward Surge Current... I_{FM}	15			Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, 1/2 Wave, Single Phase, 60Hz	150			Amps
Voltage Rate of Change at Rated V_R ... D_V/D_T	1000			Volts/ μs
Operating Temperature Range... T_J	-65 to 150			$^\circ C$
Storage Temperature Range... T_{STRG}	-65 to 175			$^\circ C$
Electrical Characteristics				
Maximum Forward Voltage... V_F @ $I_F = 15$ Amps, $25^\circ C$.84			Volts
@ $I_F = 15$ Amps, $125^\circ C$.72			Volts
@ $I_F = 7.5$ Amps, $125^\circ C$.57			Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage $T_L = 25^\circ C$	2.0			mAmps
$T_L = 125^\circ C$	15			mAmps

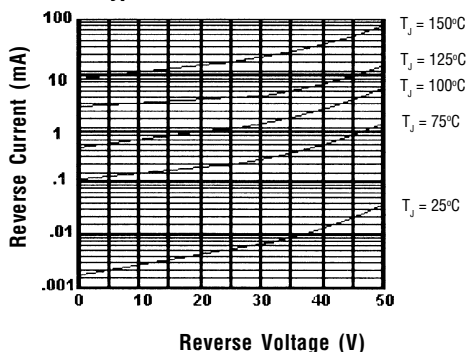
7.5 Amp SCHOTTKY BARRIER RECTIFIERS

FBR735.... 745 Series

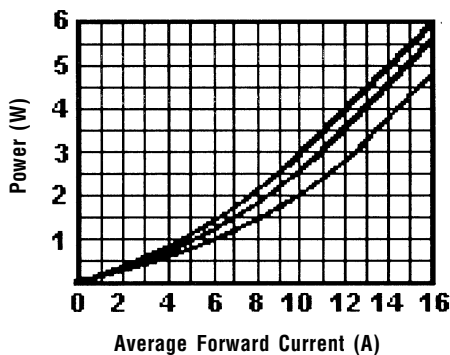
Forward Current Derating Curve



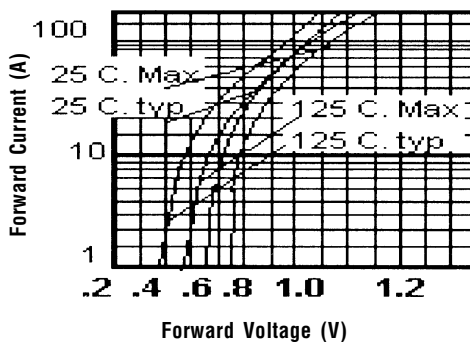
Typical Reverse Characteristics



Forward Power Dissipation

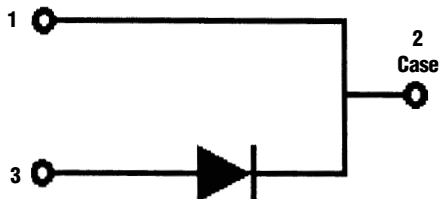


Typical Forward Characteristics

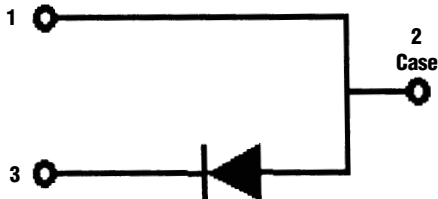


Electrical Description

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%.