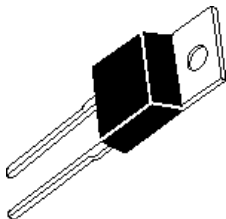
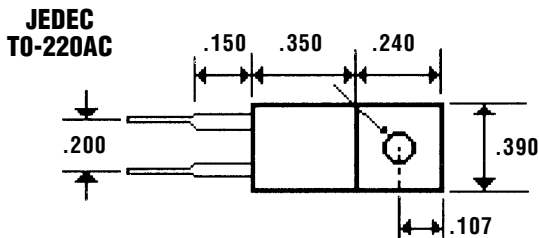


**FBR1035 & 1045**

## Description



## Mechanical Dimensions



## Features

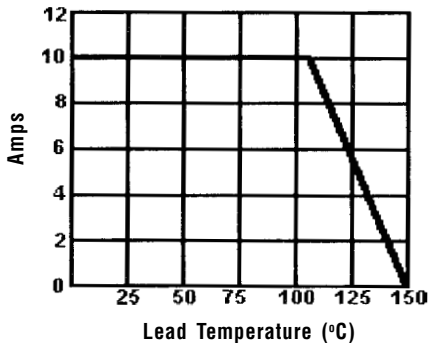
- HIGH CURRENT CAPABILITY WITH LOW  $V_F$
- SUPERIOR METAL PROCESS
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	FBR1035 & 1045		Units
Maximum Ratings	FBR1035	FBR1045	
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
RMS Reverse Voltage... $V_{R(rms)}$	24	31	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_c = 110^\circ\text{C}$	10		Amps
Repetitive Peak Forward Surge Current... $I_{FM}$	20		Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Load Conditions, 1/2 Wave, 60HZ, Single Phase	150		Amps
Forward Voltage... $V_F$ @ $I_F = 20$ Amps, 25°C	.84		Volts
@ $I_F = 20$ Amps, 125°C	.72		Volts
@ $I_F = 10$ Amps, 125°C	.57		Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	.1		mAmps
$T_L = 25^\circ\text{C}$	.15		mAmps
$T_L = 125^\circ\text{C}$			
Operating Temperature Range... $T_J$	-65 to 150		°C
Storage Temperature Range... $T_{STRG}$	-65 to 175		°C

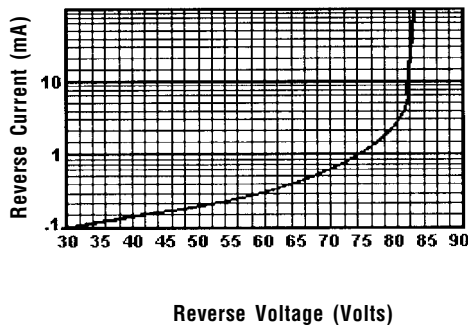
# 10 Amp SCHOTTKY BARRIER RECTIFIERS

**FBR1035 & 1045**

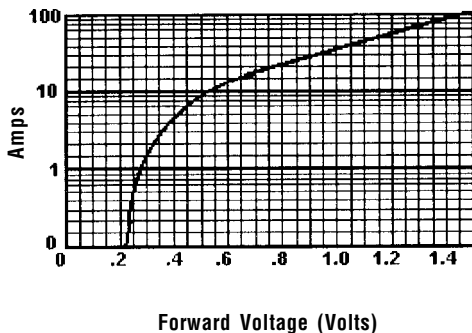
**Forward Current Derating Curve**



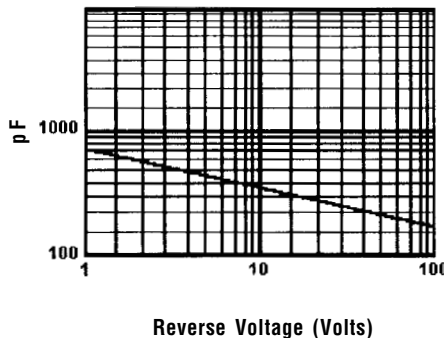
**Typical Reverse Characteristics**



**Typical Forward Characteristics**



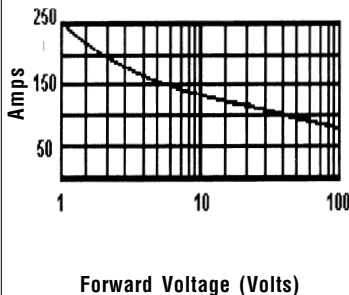
**Typical Junction Capacitance**



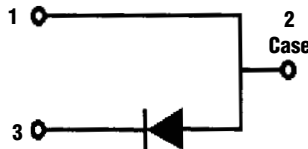
**Case Positive, No Suffix Required**



**Typical Forward Characteristics**



**Case Negative, 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%.

- 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.