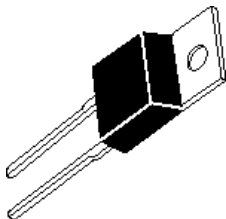
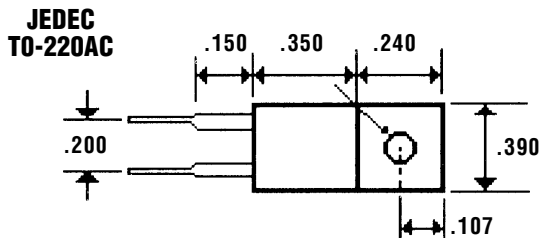


**Description**

**Mechanical Dimensions**

**Features**

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

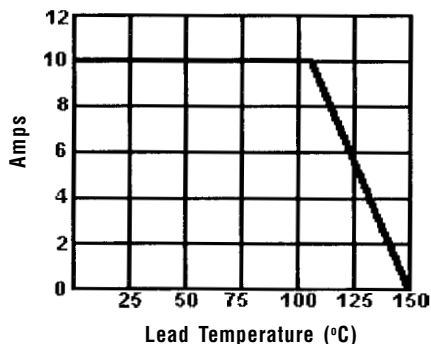
- **HIGH SURGE VOLTAGE AND  
TRANSIENT PROTECTION**
- **MEETS UL SPECIFICATION 94V-0**

<b>Electrical Characteristics @ 25°C.</b>		<b>FBR1035 &amp; 1045</b>		<b>Units</b>
<b>Maximum Ratings</b>		<b>FBR1035</b>	<b>FBR1045</b>	
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, $25^\circ\text{C}$		.84		Volts
@ $I_F = 20$ Amps, $125^\circ\text{C}$		.72		Volts
@ $I_F = 10$ Amps, $125^\circ\text{C}$		.57		Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_L = 25^\circ\text{C}$ $T_L = 125^\circ\text{C}$	.1 15		mAmps mAmps
Operating Temperature Range... $T_J$		-65 to 150		$^\circ\text{C}$
Storage Temperature Range... $T_{STRG}$		-65 to 175		$^\circ\text{C}$

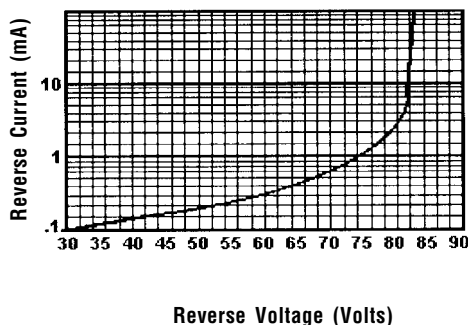
# 10 Amp SCHOTTKY BARRIER RECTIFIERS

**FBR1035 & 1045**

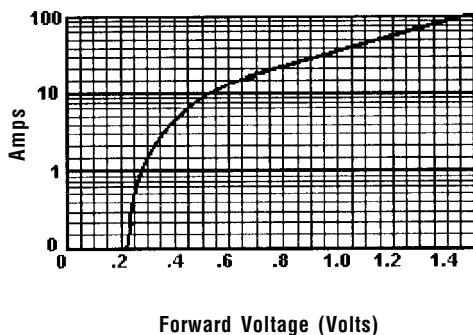
Forward Current Derating Curve



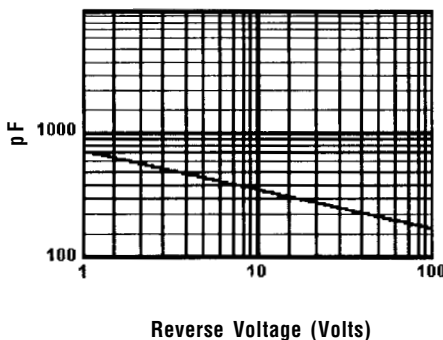
Typical Reverse Characteristics



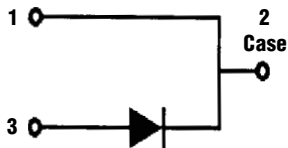
Typical Forward Characteristics



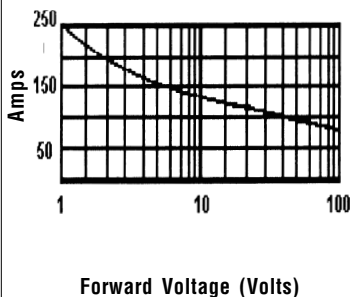
Typical Junction Capacitance



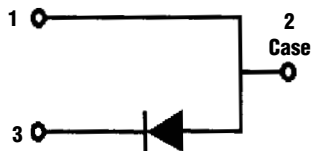
Case Positive, No  
Suffix Required



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.