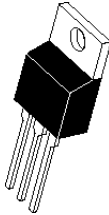


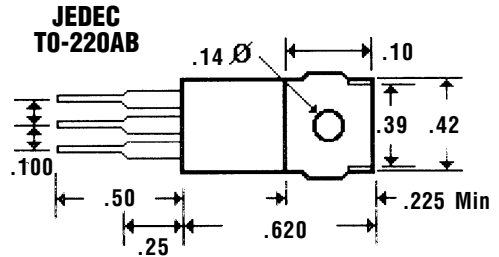
# 10 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

**FBR1060...10100 Series**

## Description



## Mechanical Dimensions



## Features

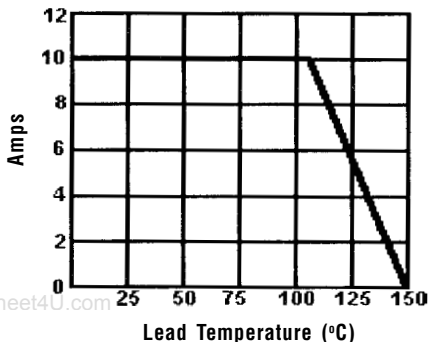
- HIGH CURRENT CAPABILITY WITH LOW  $V_F$
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- SUPERIOR METAL PROCESS
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	FBR1060 . . . 10100 Series					Units
Maximum Ratings	FBR1060	FBR1070	FBR1080	FBR1090	FBR10100	
Peak Repetitive Reverse Voltage... $V_{RRM}$	60	70	80	90	100	Volts
Working Peak Reverse Voltage... $V_{RWM}$	60	70	80	90	100	Volts
DC Blocking Voltage... $V_{DC}$	60	70	80	90	100	Volts
Average Forward Rectified Current... $I_{F(av)}$ @ $T_C = 104^\circ\text{C}$	10					Amps
Repetitive Peak Forward Surge Current... $I_{FM}$ 20KHZ Square Wave	20					Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Load Conditions, 8.3ms, 1/2 Sine Wave	150					Amps
Repetitive Peak Reverse Surge Current... $I_{RSM}$	0.5					Amps
Forward Voltage... $V_F$ @ $I_F = 10$ Amps @ $I_F = 10$ Amps				$T_C = 25^\circ\text{C}$ ..... $T_C = 125^\circ\text{C}$		
				.80 ..... .70	Volts Volts	
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage				$T_C = 25^\circ\text{C}$ ..... $T_C = 125^\circ\text{C}$	mAmps mAmps	
				1.0 ..... 35		
Typical Thermal Resistance... $R_{\theta JC}$	2					$^\circ\text{C} / \text{W}$
Operating Temperature Range... $T_J$	-65 to 150					$^\circ\text{C}$
Storage Temperature Range... $T_{STRG}$	-65 to 175					$^\circ\text{C}$

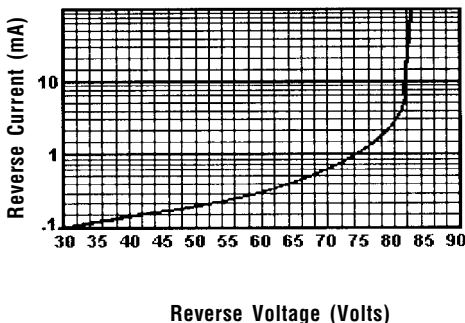
# 10 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

**FBR1060... 10100 Series**

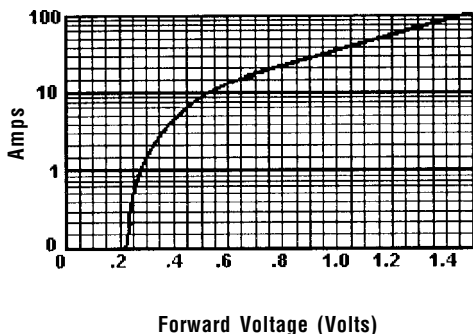
**Forward Current Derating Curve**



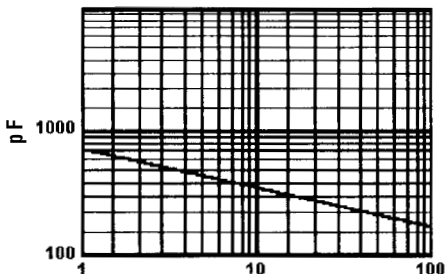
**Typical Reverse Characteristics**



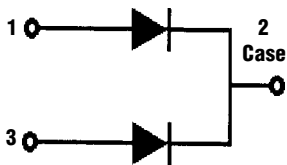
**Typical Forward Characteristics**



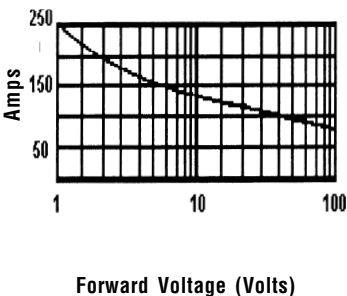
**Typical Junction Capacitance**



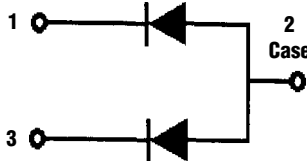
**Case Positive, No Suffix Required**



**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.