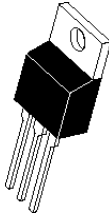


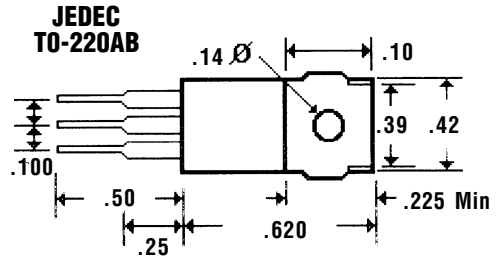
10 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

FBR1060...10100 Series

Description



Mechanical Dimensions



Features

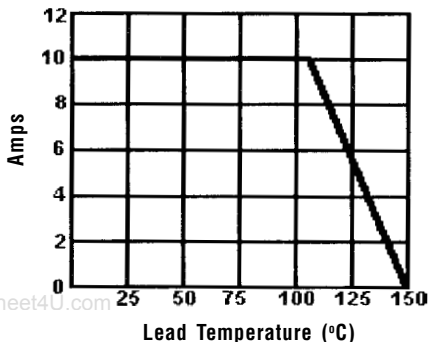
- HIGH CURRENT CAPABILITY WITH LOW V_F
- SUPERIOR METAL PROCESS
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	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				$T_C = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$		
				.8070	Volts Volts	
DC Reverse Current... I_R @ Rated DC Blocking Voltage				$T_C = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$		
				1.0 35	mAmps mAmps	
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					$^\circ\text{C}$

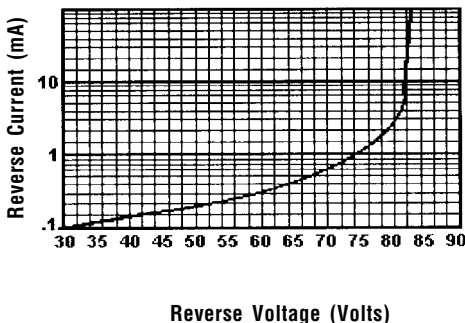
10 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

FBR1060... 10100 Series

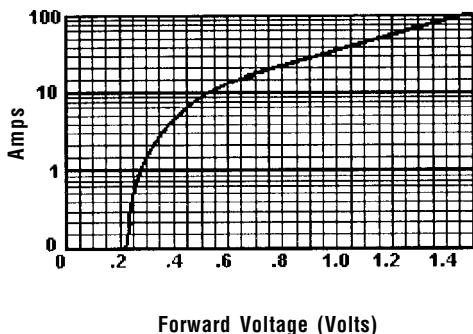
Forward Current Derating Curve



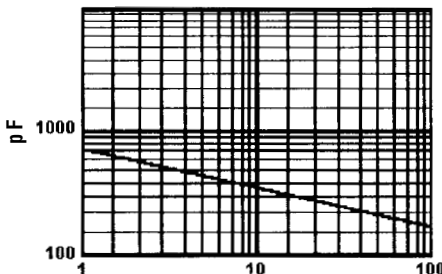
Typical Reverse Characteristics



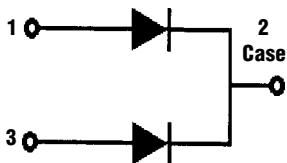
Typical Forward Characteristics



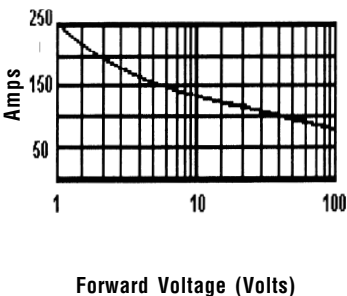
Typical Junction Capacitance



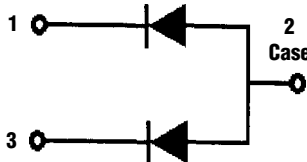
Case Positive, No Suffix Required



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.