

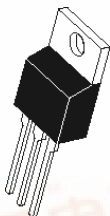


Data Sheet

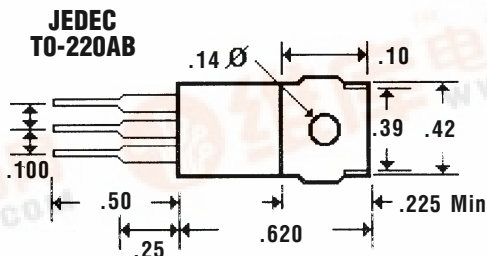
20 Amp HV SCHOTTKY BARRIER RECTIFIERS

FBR2090...20100 Series

Description



Mechanical Dimensions



Features

- HIGH CURRENT CAPABILITY WITH LOW V_F
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	FBR2090 . . . 20100 Series		Units
Maximum Ratings	FBR2090	FBR20100	
Peak Repetitive Reverse Voltage... V_{RRM} Pulse Test 0.5 mS, Duty Cycle 1/40	90	100	Volts
Working Peak Reverse Voltage... V_{RWM}	90	100	Volts
DC Blocking Voltage... V_{DC}	90	100	Volts
Average Forward Rectified Current... I_o $T_c = 110^\circ\text{C}$	20		Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, Sinusoidal Wave, 60HZ, 1 Cycle, $T_j = 125^\circ\text{C}$	120		Amps
Forward Voltage... V_F @ $I_F = 10$ Amps	.85		Volts
@ $I_F = 20$ Amps	.95		Volts
DC Reverse Current (@ $V_R = V_{RM}$)... I_R @ Rated DC Blocking Voltage	.15		mAmps
Thermal Resistance, Junction to Case... $R_{\theta JC}$	1.5		$^\circ\text{C} / \text{W}$
Operating Temperature Range... T_j	-40 to 125		$^\circ\text{C}$
Storage Temperature Range... T_{STRG}	+ 125		$^\circ\text{C}$

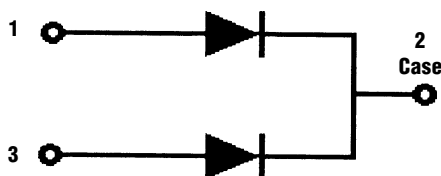




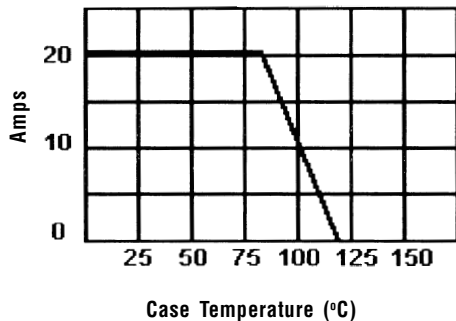
20 Amp HV SCHOTTKY BARRIER RECTIFIERS

FBR2090...20100 Series

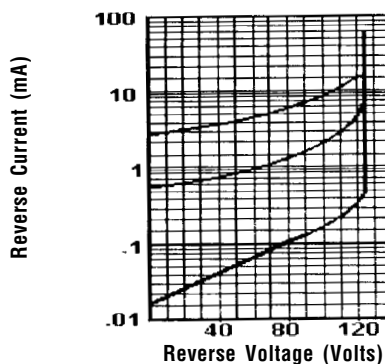
Common Cathode,
Suffix "C"



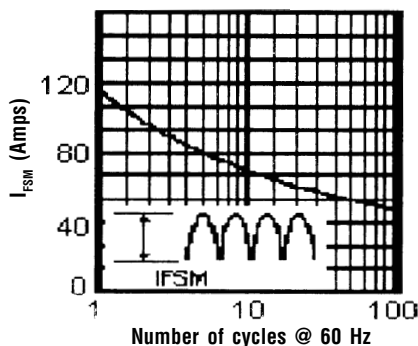
Forward Current Derating Curve



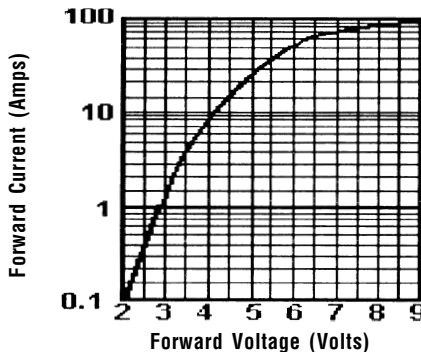
Typical Reverse Characteristics



Maximum Surge Capacity



Forward Characteristics



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.