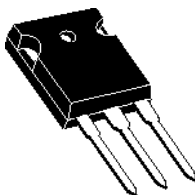
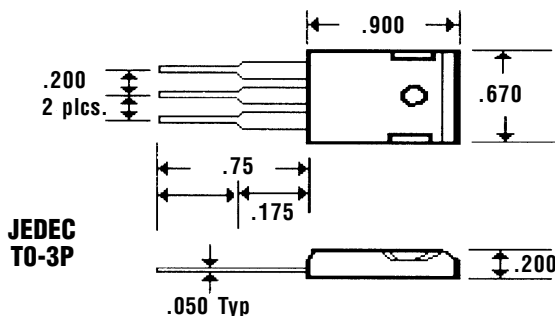


Description



Mechanical Dimensions



Features

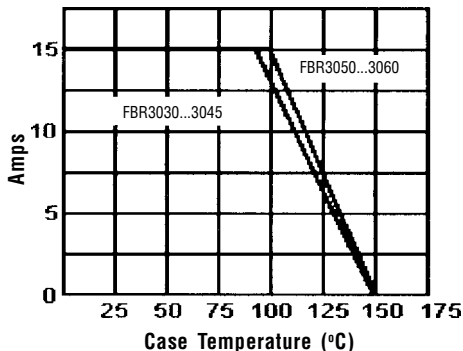
- HIGH CURRENT CAPABILITY WITH LOW V_F
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C. <i>FBR3090 & 30100</i>			Units
Maximum Ratings	FBR3090	FBR30100	
Peak Repetitive Reverse Voltage... V_{RRM}	90	100	Volts
Working Peak Reverse Voltage... V_{RWM}	90	100	Volts
DC Blocking Voltage... V_{DC}	90	100	Volts
RMS Reverse Voltage... V_R (rms)	21	42	Volts
Average Forward Rectified Current... I_o @ $T_C = 110^\circ\text{C}$ V_R (equiv.) $< 0.2V_{R(DC)}$	30		Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, 1/2 Sine Wave, Single Phase, 60HZ	300		Amps
Forward Voltage... V_F @ $I_F = 15$ Amps	.55		Volts
DC Reverse Current... I_R @ Rated DC Blocking Voltage	$T_C = 25^\circ\text{C}$ $T_C = 150^\circ\text{C}$	10 100	mAmps mAmps
Operating Temperature Range... T_J	-65 to 150		°C

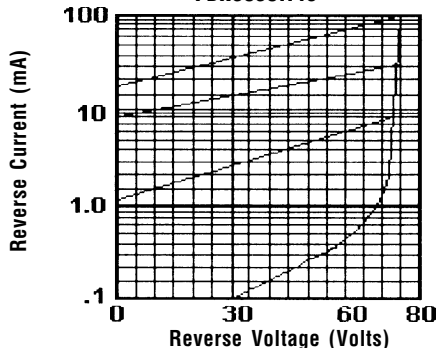
30 Amp 90 & 100V SCHOTTKY BARRIER RECTIFIERS

FBR3090 & 3100

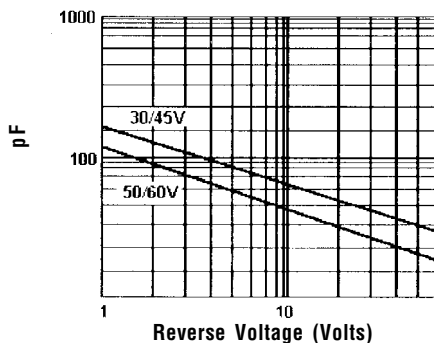
Forward Current Derating Curve



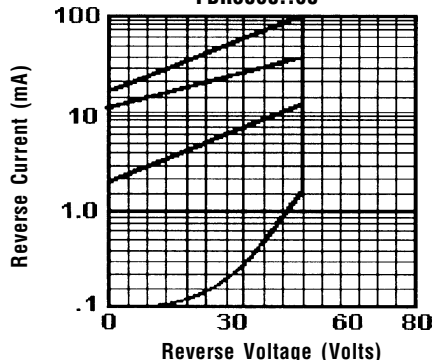
**Typical Reverse Characteristics
FBR3030...45**



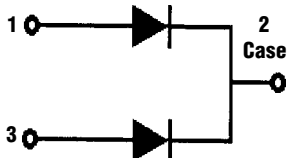
Typical Junction Capacitance



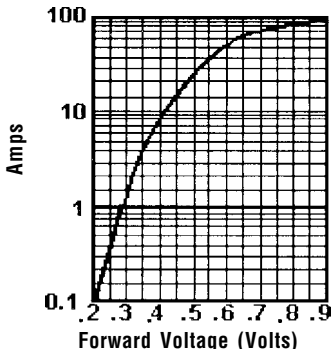
**Typical Reverse Characteristics
FBR3050...60**



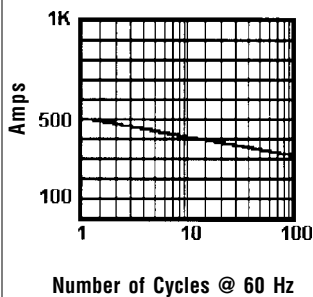
**Common Cathode,
Suffix "C"**



Typical Forward Characteristics



Peak Forward Surge Current



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.