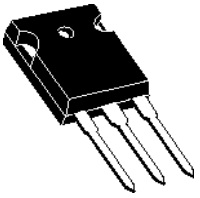
Data Sheet

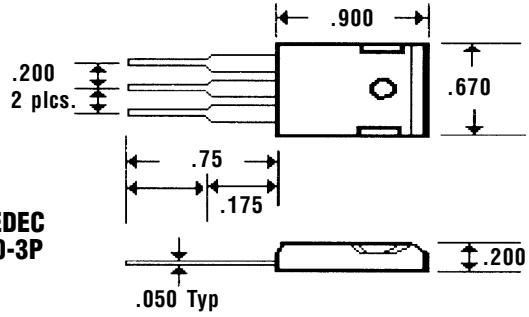
30 Amp 90 & 100V SCHOTTKY BARRIER RECTIFIERS

FBR3090 & 30100 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.	FBR3090 & 30100		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°C V_R (equiv.) < = 0.2$V_{R(DC)}$	30		Amps
Non-Repetitive Peak Forward Surge Current...I_{FSM} @ Rated Load Conditions, ½ 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°C	10		mAmps
T_C =150°C	100		mAmps
Operating Temperature Range...T_J	-65 to 150		°C

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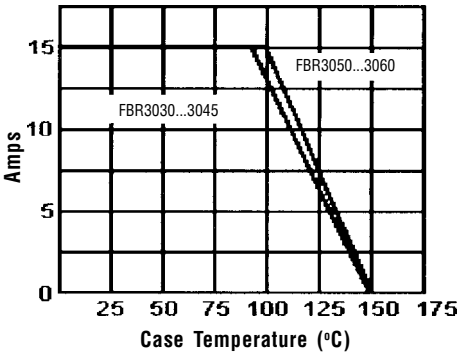
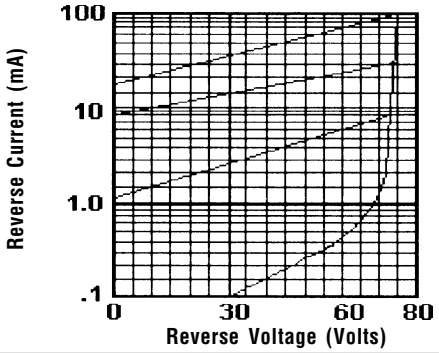
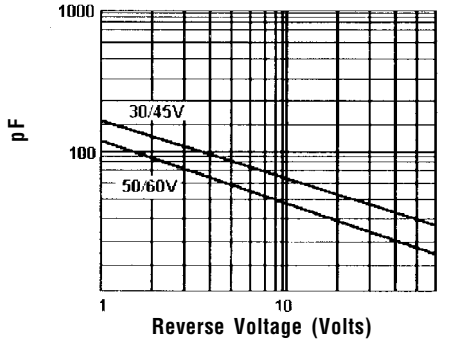
Forward Current Derating Curve



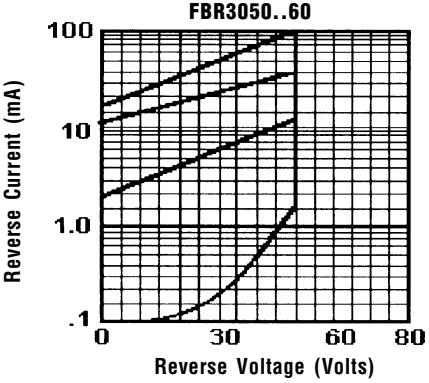
Typical Reverse Characteristics FBR3030..45



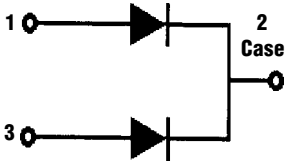
Typical Junction Capacitance



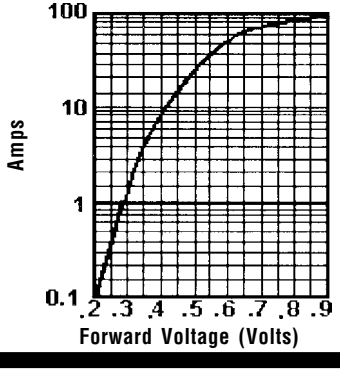
Typical Reverse Characteristics FBR3050..60



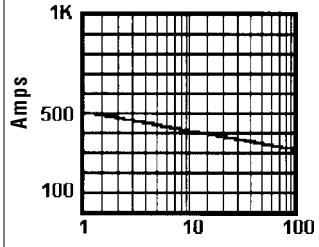
Common Cathode, Suffix "C"



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.