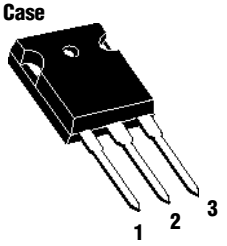
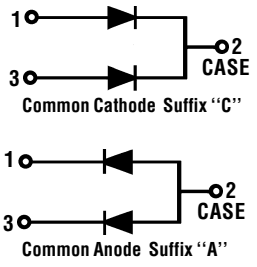
Semiconductor *Data Sheet*

30 Amp SCHOTTKY BARRIER RECTIFIERS

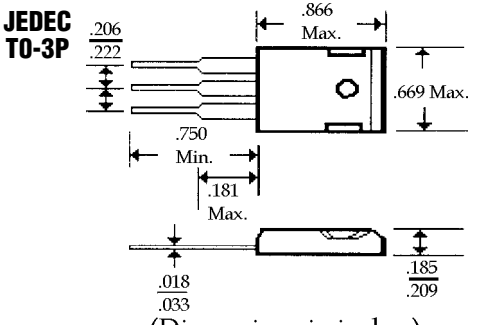
FBR3030...3060 Series

Description





Mechanical Dimensions



(Dimensions in inches)

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**

	FBR3030	FBR3035	FBR3040	FBR3045	FBR3050	FBR3060	Units
	FBR3030 . . . 3060 Series						
Maximum Ratings							
Peak Repetitive Reverse Voltage...V_{RRM}	30	35	40	45	50	60	Volts
Working Peak Reverse Voltage...V_{RWM}	30	35	40	45	50	60	Volts
DC Blocking Voltage...V_{DC}	30	35	40	45	50	60	Volts
RMS Reverse Voltage...V_R(rms)	21	24	28	31	35	42	Volts
Average Forward Rectified Current...I_0 @ T_C = 110°C V_R (equiv.) < = $0.2V_{R(DC)}$	..... 30						Amps
Non-Repetitive Peak Forward Surge Current...I_{FSM} @ Rated Load Conditions, ½ Sine Wave, Single Phase, 60Hz	..... 300						Amps
Operating Temperature Range...T_J	..... -65 to 150						°C
Electrical Characteristics							
Maximum Forward Voltage...V_F @ I_F = 15 Amps	< ..... .55 ..... >			< ..... .65 ..... >			Volts
Maximum DC Reverse Current...I_R @ Rated DC Blocking Voltage T_C = 25°C	..... 3.0						mAmps
T_C =150°C	..... 100						mAmps

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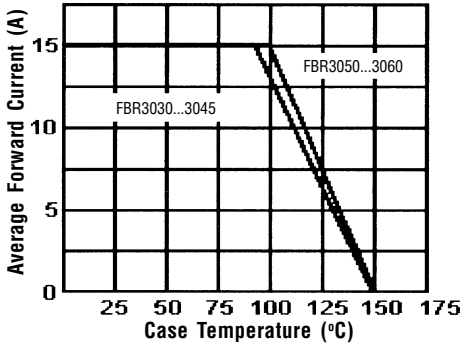
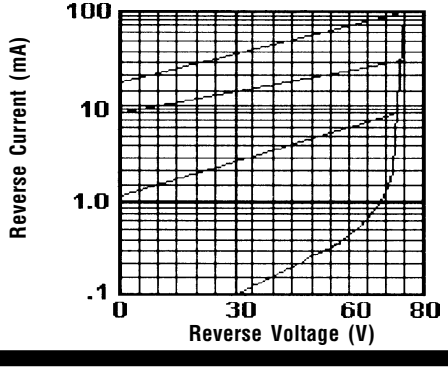
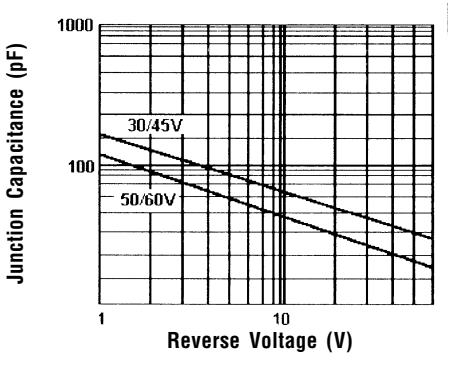
Forward Current Derating Curve



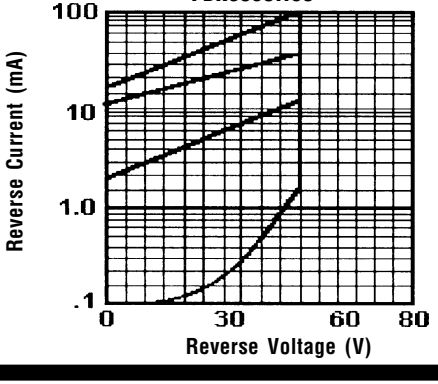
Typical Reverse Characteristics FBR3030..45



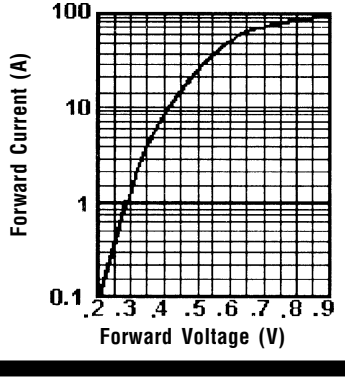
Typical Junction Capacitance



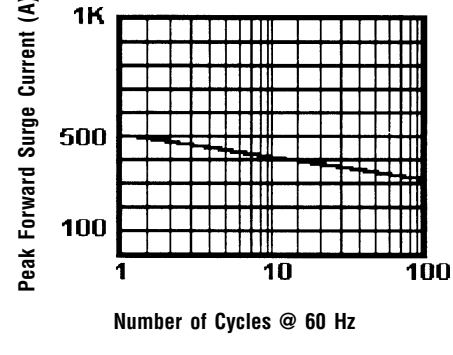
Typical Reverse Characteristics FBR3050..60



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%.