

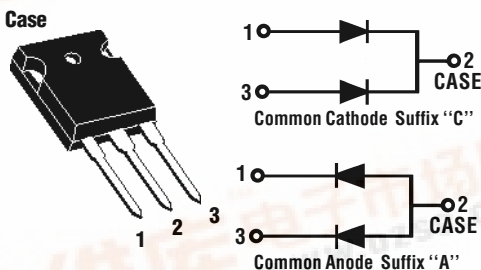


Data Sheet

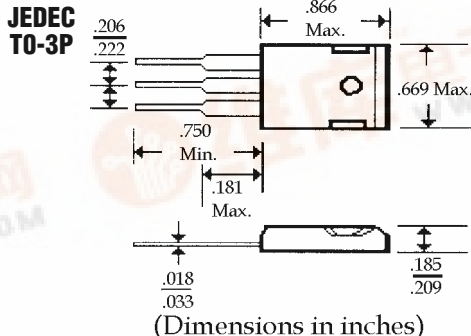
30 Amp SCHOTTKY BARRIER RECTIFIERS

FBR3030 ... 3060 Series

Description



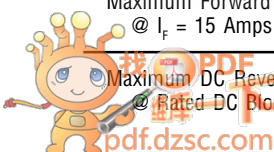
Mechanical Dimensions



Features

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

FBR3030 . . . 3060 Series							Units
Maximum Ratings	FBR3030	FBR3035	FBR3040	FBR3045	FBR3050	FBR3060	
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 _O @ 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	3.0						mAmps
T _C = 25°C	100						mAmps
T _C =150°C							

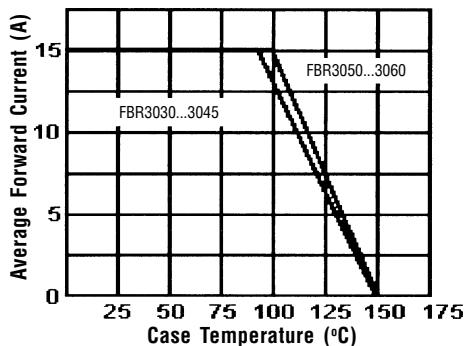




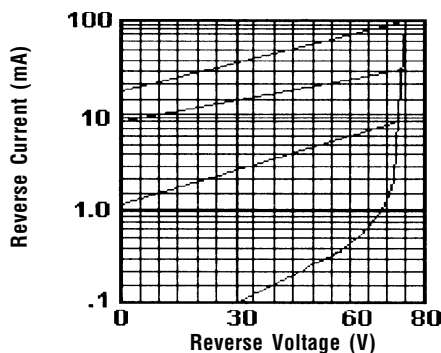
30 Amp SCHOTTKY BARRIER RECTIFIERS

FBR3030 ... 3060 Series

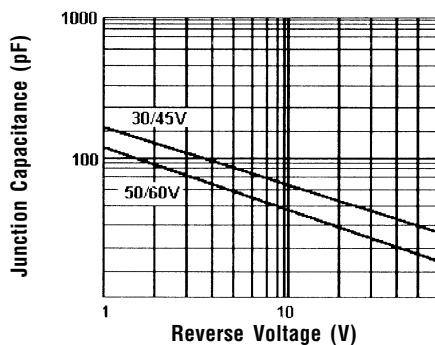
Forward Current Derating Curve



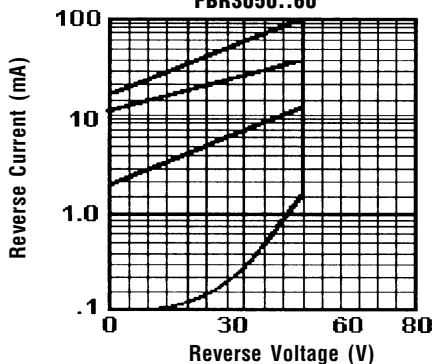
**Typical Reverse Characteristics
FBR3030..45**



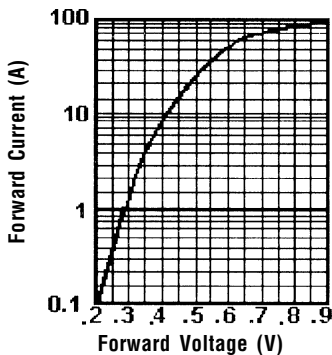
Typical Junction Capacitance



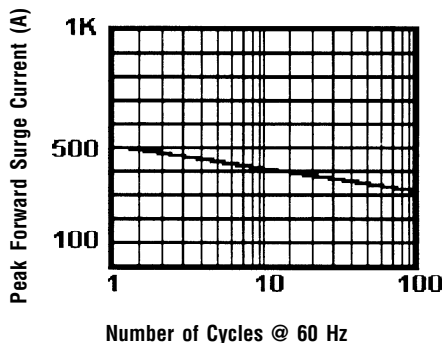
**Typical Reverse Characteristics
FBR3050..60**



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%.