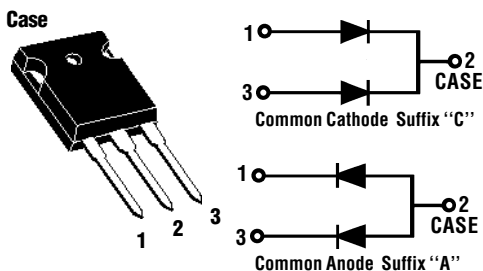
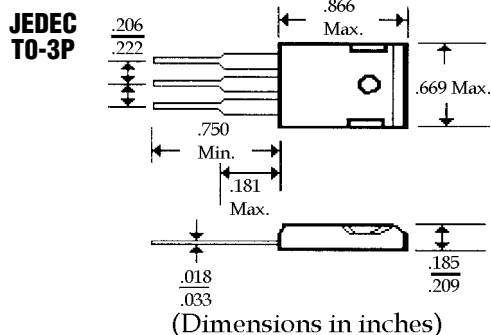


Description



Mechanical Dimensions



Features

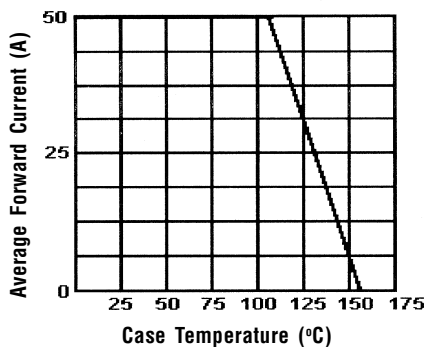
- **HIGH CURRENT CAPABILITY WITH LOW V_F**
- **HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION**
- **HIGH EFFICIENCY w/LOW POWER LOSS**
- **MEETS UL SPECIFICATION 94V-0**

FBR5030 . . . 5060 Series							Units
Maximum Ratings	FBR5030	FBR5035	FBR5040	FBR5045	FBR5050	FBR5060	
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)}	50						Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} @ Rated Load Conditions, ½ Sine Wave, Single Phase, 60Hz	500						Amps
Operating & Storage Temperature Range...T _J , T _{STRG}	-65 to 150						°C
Electrical Characteristics							
Maximum Forward Voltage...V _F @ I _F = 25 Amps	< .60 > < .70 >						Volts
Maximum DC Reverse Current...I _R @ Rated DC Blocking Voltage	5.0						mAmps
T _C = 25°C	< 100 > < 150 >						mAmps
T _C =125°C							

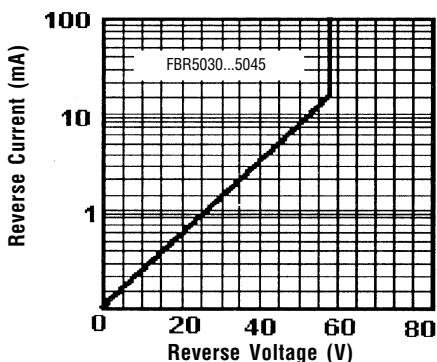
50 Amp SCHOTTKY BARRIER RECTIFIERS

FBR5030 ... 5060 Series

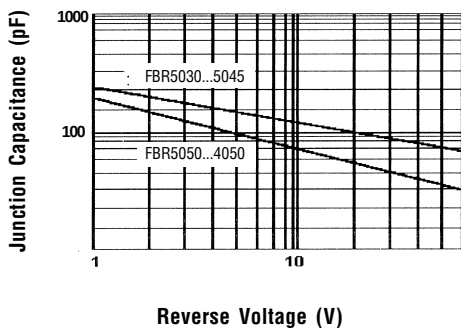
Forward Current Derating Curve



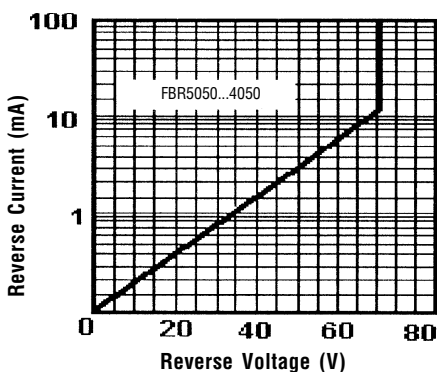
Typical Reverse Characteristics



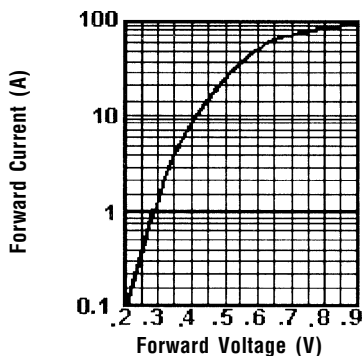
Typical Junction Capacitance



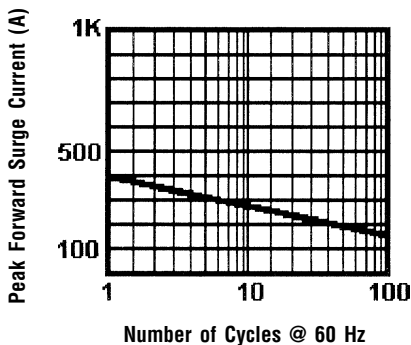
Typical Reverse Characteristics



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%.