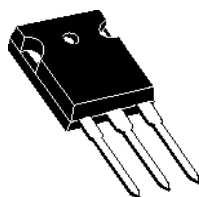


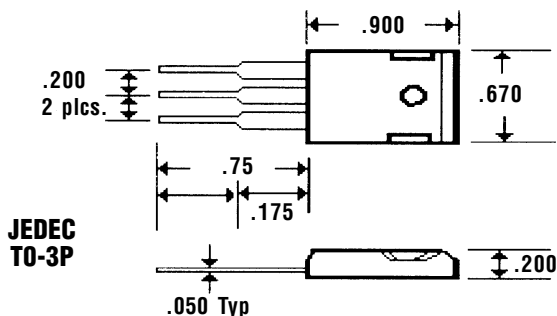
60 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

FBR6030...6060 Series

Description



Mechanical Dimensions



Features

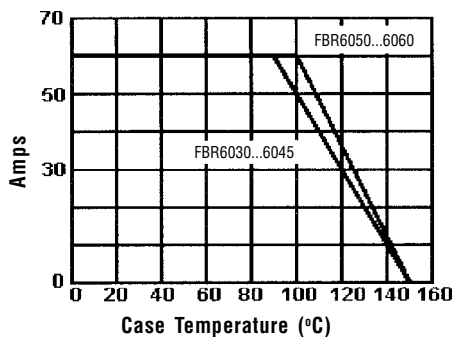
- HIGH CURRENT CAPABILITY WITH LOW V_F
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.		FBR6030 . . . 6060 Series						Units
Maximum Ratings		FBR6030	FBR6035	FBR6040	FBR6045	FBR6050	FBR6060	
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 @ $T_C = 110^\circ\text{C}$ V_R (equiv.) $\leq 0.2V_{R(DC)}$		60						Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, 1/2 Sine Wave, Single Phase, 60HZ		600						Amps
Forward Voltage... V_F @ $I_F = 30$ Amps		<65 > <75 >						Volts
DC Reverse Current... I_R @ Rated DC Blocking Voltage	$T_C = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$	10 < 100 > < 150 >						mAmps mAmps
Operating & Storage Temperature Range... T_J, T_{STRG}		-65 to 150						°C

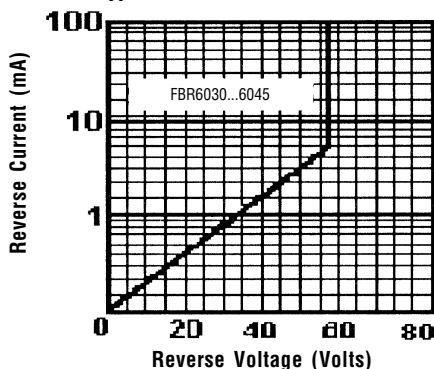
60 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

FBR6030 ... 6060 Series

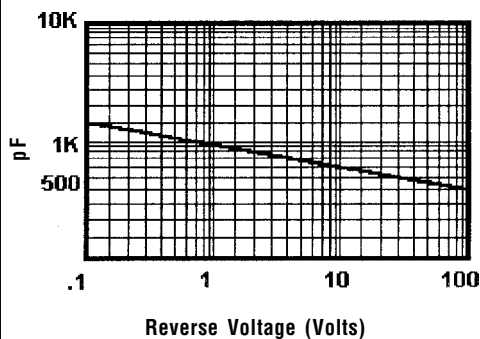
Forward Current Derating Curve



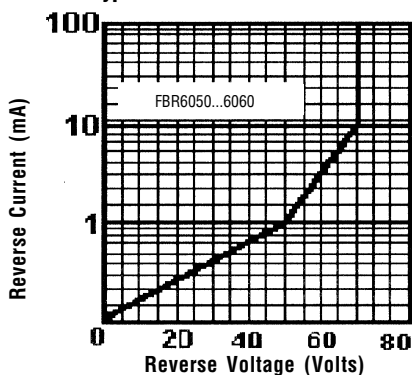
Typical Reverse Characteristics



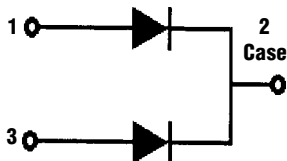
Typical Junction Capacitance



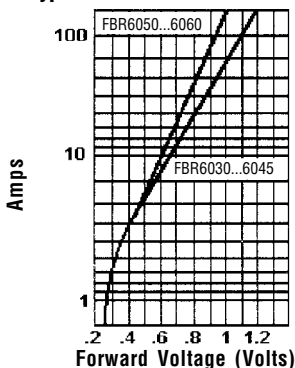
Typical Reverse Characteristics



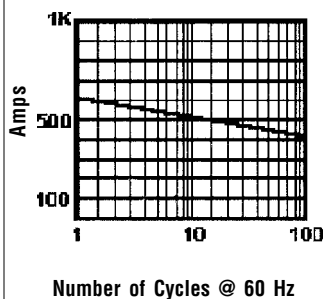
**Common Cathode,
Suffix "C"**



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.