

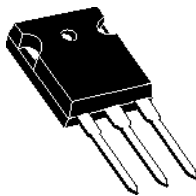


Data Sheet

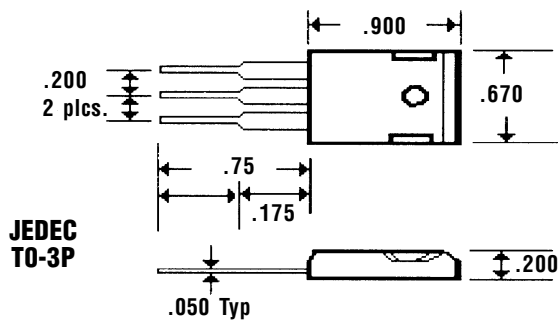
# 60 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

FBR6030...6060 Series

## Description



## Mechanical Dimensions



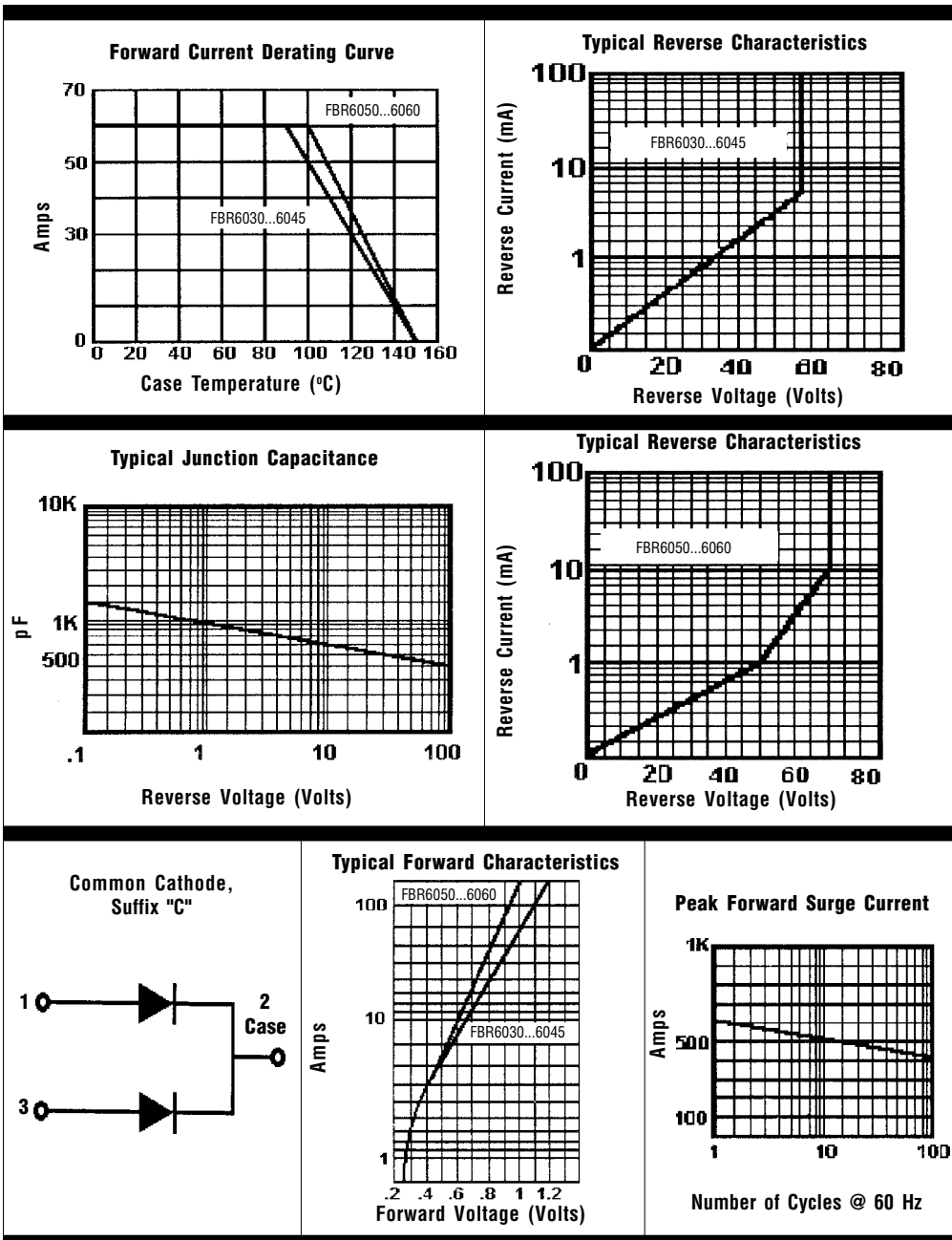
## Features

- 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	$T_C = 25^\circ\text{C}$ ..... 10 .....						mAmps
	$T_C = 125^\circ\text{C}$ < ..... 100 ..... > < ..... 150 ..... >						mAmps
Operating & Storage Temperature Range... $T_J, T_{STRG}$	-65 to 150						°C

# 60 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

**FBR6030 ... 6060 Series**



**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.

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%.