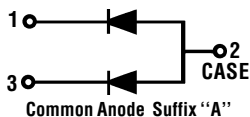
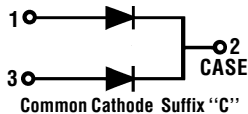
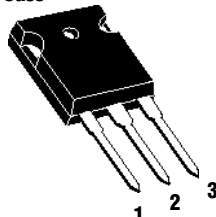


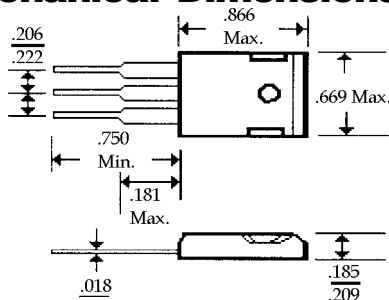
## Description

Case



## Mechanical Dimensions

JEDEC  
TO-3P



(Dimensions in inches)

## Features

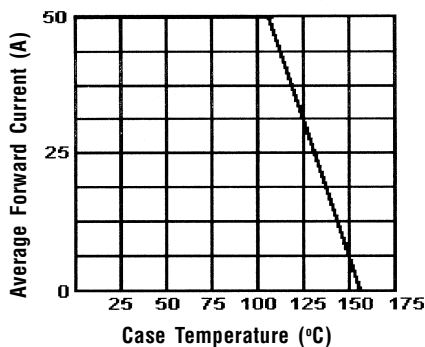
- HIGH CURRENT CAPABILITY WITH LOW  $V_F$
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

FBR5030 . . . 5060 Series							Units
Maximum Ratings	FBR5030	FBR5035	FBR5040	FBR5045	FBR5050	FBR5060	
Peak Repetitive Reverse Voltage...V <sub>RRM</sub>	30	35	40	45	50	60	Volts
Working Peak Reverse Voltage...V <sub>RWM</sub>	30	35	40	45	50	60	Volts
DC Blocking Voltage...V <sub>DC</sub>	30	35	40	45	50	60	Volts
RMS Reverse Voltage...V <sub>R</sub> (rms)	21	24	28	31	35	42	Volts
Average Forward Rectified Current...I <sub>O</sub> @ T <sub>C</sub> = 110°C V <sub>R</sub> (equiv.) <= 0.2V <sub>R(DC)</sub>	50						Amps
Non-Repetitive Peak Forward Surge Current...I <sub>FSM</sub> @ Rated Load Conditions, ½ Sine Wave, Single Phase, 60Hz	500						Amps
Operating & Storage Temperature Range...T <sub>J</sub> , T <sub>STRG</sub>	-65 to 150						°C
Electrical Characteristics							
Maximum Forward Voltage...V <sub>F</sub> @ I <sub>F</sub> = 25 Amps	< .60		>		< .70		> Volts
Maximum DC Reverse Current...I <sub>R</sub> @ Rated DC Blocking Voltage	T <sub>C</sub> = 25°C		5.0		T <sub>C</sub> = 125°C		mAmps
	<		100		>		< 150 > mAmps

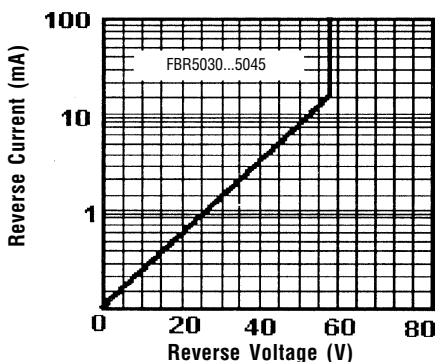
# 50 Amp SCHOTTKY BARRIER RECTIFIERS

**FBR5030 ... 5060 Series**

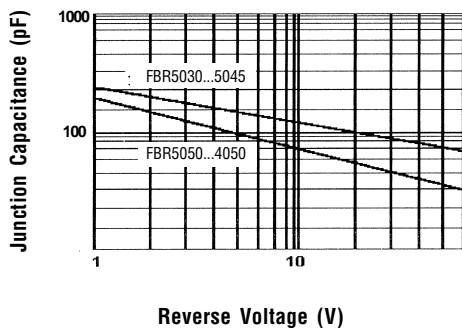
**Forward Current Derating Curve**



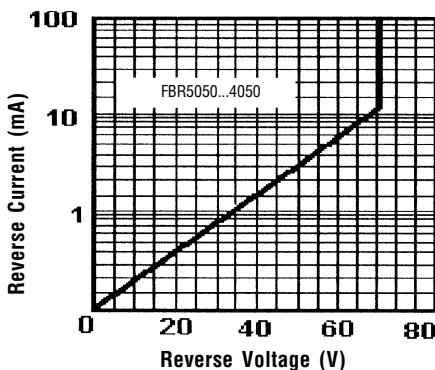
**Typical Reverse Characteristics**



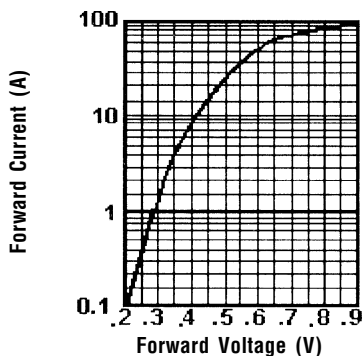
**Typical Junction Capacitance**



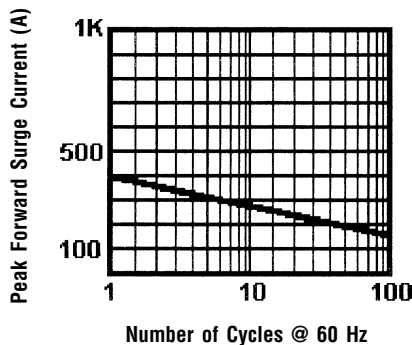
**Typical Reverse Characteristics**



**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%.