

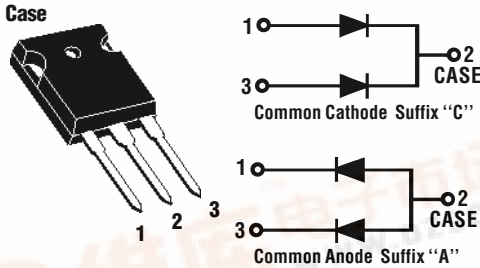


Data Sheet

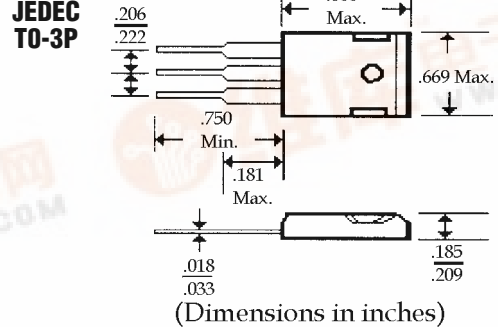
50 Amp SCHOTTKY BARRIER RECTIFIERS

FBR5030...5060 Series

Description



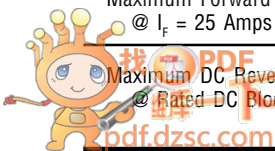
Mechanical Dimensions



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

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... $I_F$ @ $T_C = 110^\circ C$ $V_R$ (equiv.) $\leq 0.2V_{R(DC)}$				50			Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Load Conditions, 1/2 Sine Wave, Single Phase, 60Hz				500			Amps
Operating & Storage Temperature Range... $T_J, T_{STRG}$				-65 to 150			$^\circ C$
<b>Electrical Characteristics</b>							
Maximum Forward Voltage... $V_F$ @ $I_F = 25$ Amps	<..... .60 .....			<..... .70 .....			Volts
Maximum DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_C = 25^\circ C$			5.0			mAmps
	$T_C = 125^\circ C$			<..... 100 .....		<..... 150 .....	

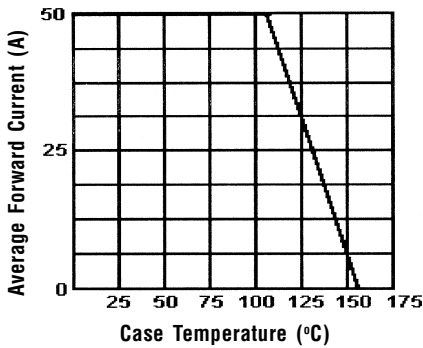




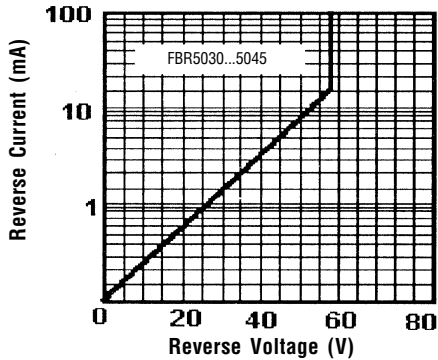
# 50 Amp SCHOTTKY BARRIER RECTIFIERS

**FBR5030 ... 5060 Series**

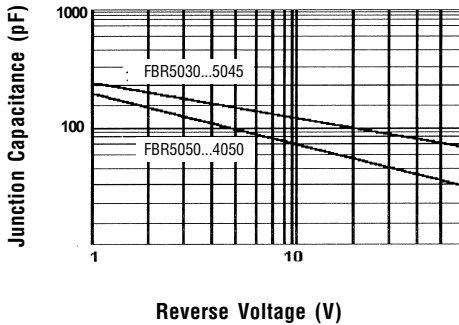
**Forward Current Derating Curve**



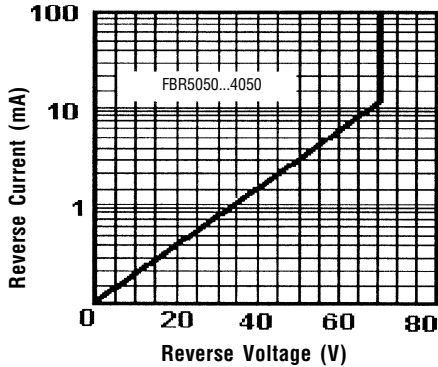
**Typical Reverse Characteristics**



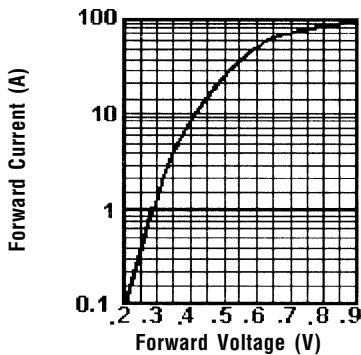
**Typical Junction Capacitance**



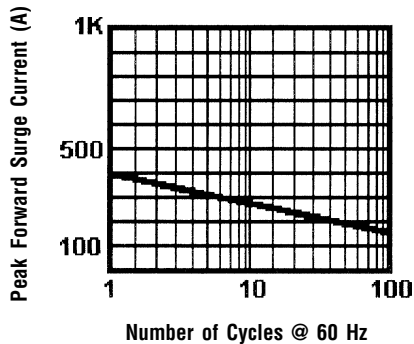
**Typical Reverse Characteristics**



**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%.