

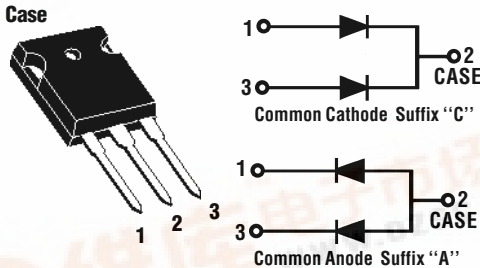


Data Sheet

40 Amp SCHOTTKY BARRIER RECTIFIERS

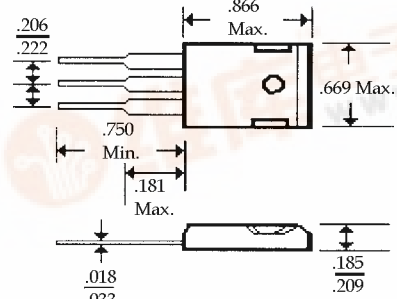
FBR4030...4060 Series

Description



Mechanical Dimensions

JEDEC
T0-3P

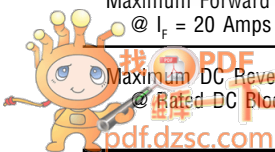


(Dimensions in inches)

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

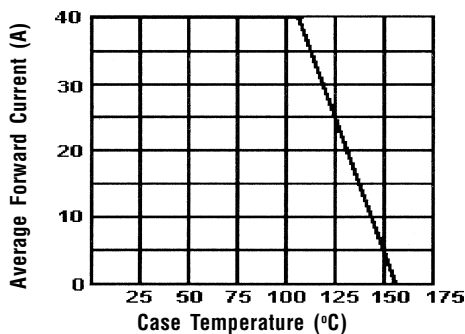
FBR4030 . . . 4060 Series							Units
Maximum Ratings	FBR4030	FBR4035	FBR4040	FBR4045	FBR4050	FBR4060	
Peak Repetitive Reverse Voltage... V_{RRM}	30	35	40	45	50	60	Volts
Working Peak Reverse Voltage... V_{RWM}	30	35	40	45	50	60	Volts
DC Blocking Voltage... V_{DC}	30	35	40	45	50	60	Volts
RMS Reverse Voltage... V_R (rms)	21	24	28	31	35	42	Volts
Average Forward Rectified Current... I_O @ $T_C = 110^{\circ}C$ V_R (equiv.) $< 0.2V_{R(DC)}$	40						Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, 1/2 Sine Wave, Single Phase, 60Hz	400						Amps
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 150						$^{\circ}C$
Electrical Characteristics							
Maximum Forward Voltage... V_F @ $I_F = 20$ Amps	$< .55 > < .65 >$						Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage	3.0						mAmps
$T_C = 25^{\circ}C$ $T_C = 125^{\circ}C$	$< 100 > < 150 >$						mAmps



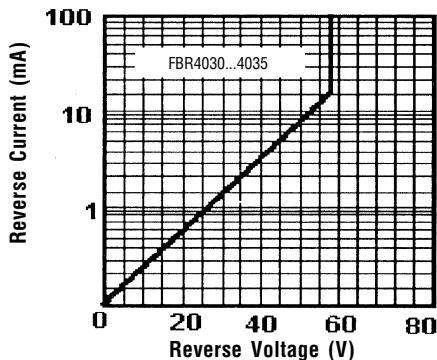
40 Amp SCHOTTKY BARRIER RECTIFIERS

FBR4030 ... 4060 Series

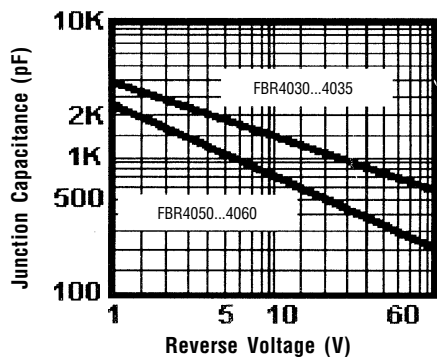
Forward Current Derating Curve



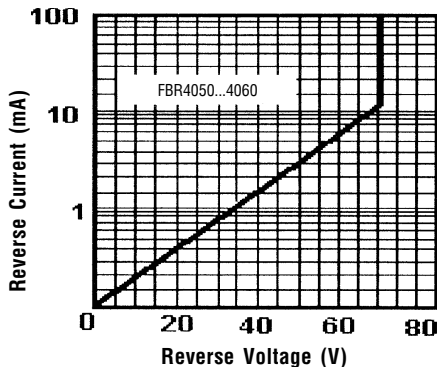
Typical Reverse Characteristics



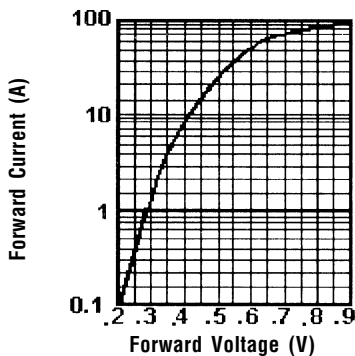
Typical Junction Capacitance



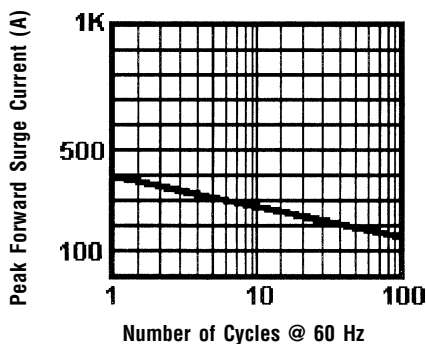
Typical Reverse Characteristics



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%.