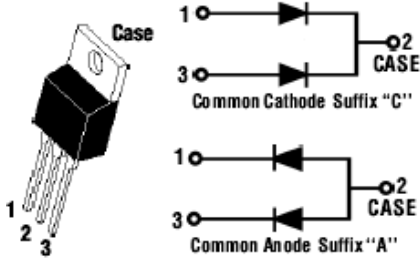


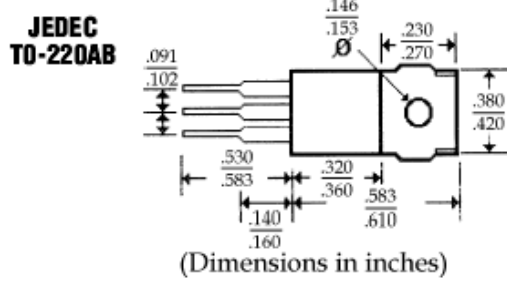
**10 Amp High Voltage
SCHOTTKY BARRIER
RECTIFIERS**

FBR10 30 .. 10100 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

Max Ratings 25C	Symbol	FBR1030	FBR1040	FBR1050	FBR1060	FBR1080	FBR10100	UNITS
Peak Repetitive Reverse Voltage	V _{rrm}	30	40	50	60	80	100	V
working Peak Reverse Voltage	V _{rwm}	30	40	50	60	80	100	V
DC Blocking Voltage	V _{dc}	30	40	50	60	80	100	V
RMS Reverse Voltage	V _{r(rms)}	21	28	35	42	56	70	V
Average Forward Rectified Current per leg T _c =150C @ Rated V _{dc}	I _{F(av)}	10	10	10	10	10	10	A
Repetitive Peak Forward Surge Current @ Rated V _{dc} Square Wave, 20KHz, T _c =150C	I _{fm}	10	10	10	10	10	10	A
Non-Repetitive Peak Forward Surge Current @ Rated Load Cond., 1/2 Wave, Single Phase, 60Hz	I _{fsm}	100						A
Operating & storage Temp. Range	T _j /T _s	-40~+125						C
Max Forward Voltage @ I _f =8Amps, PW=300us, T _c =25C	V _f	0.55	0.55	0.65	0.75	0.75	0.85	A
Max DC Reverse Current @ Rated DC Blocking Voltage T _c =125C / T _c =25C	I _r	200						uA
Typical Thermal Resistance Junction to Case	R _{thjc}	3						C/W
Typical Junction Capacitance	C _j	400						pF

10 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

FIG-1 FORWARD CURRENT DERATING CURVE

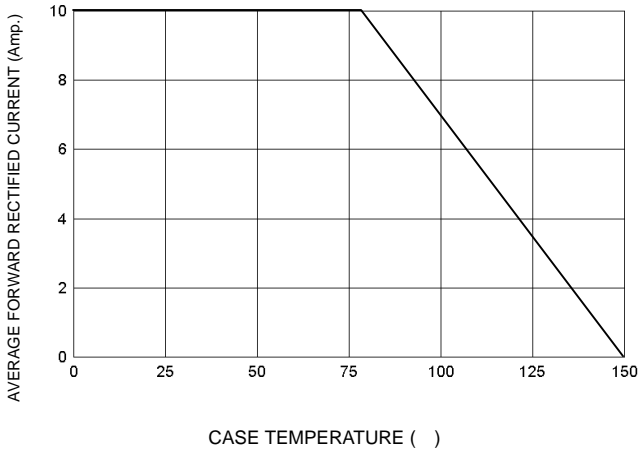


FIG-2 TYPICAL FORWARD CHARACTERISTICS

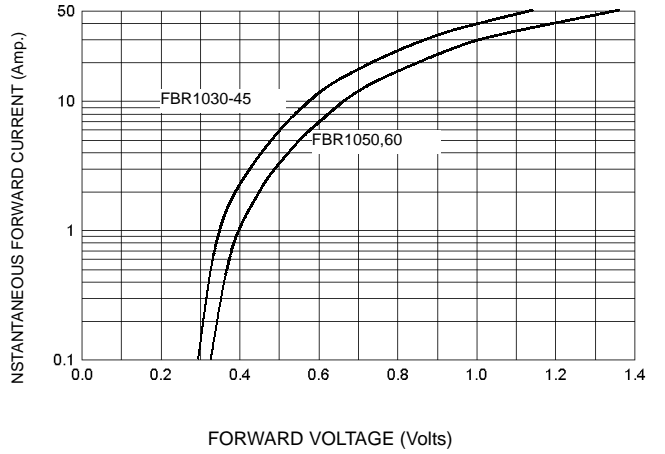


FIG-3 TYPICAL REVERSE CHARACTERISTICS

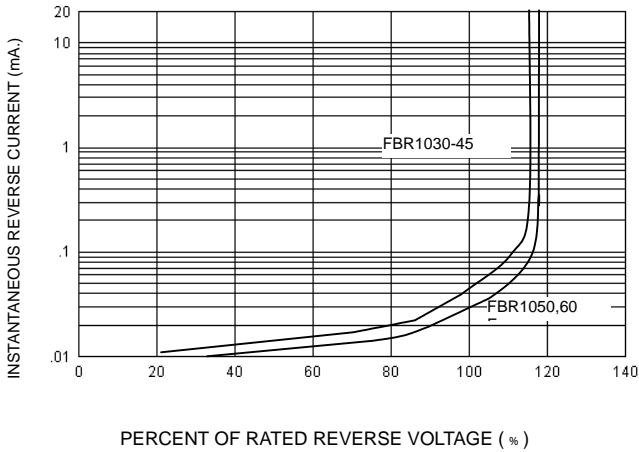


FIG-4 TYPICAL JUNCTION CAPACITANCE

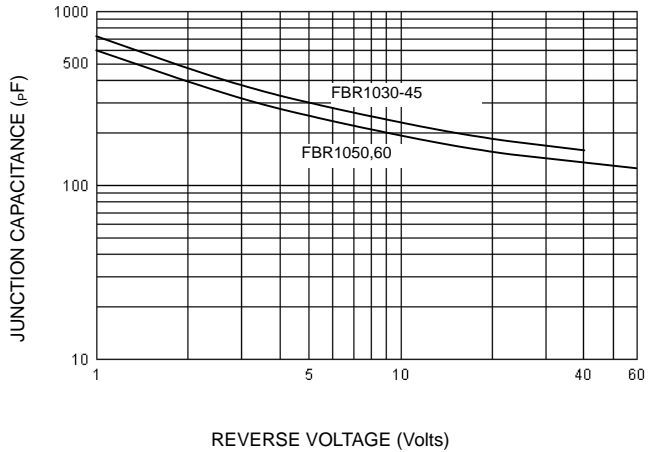


FIG-5 PEAK FORWARD SURGE CURRENT

