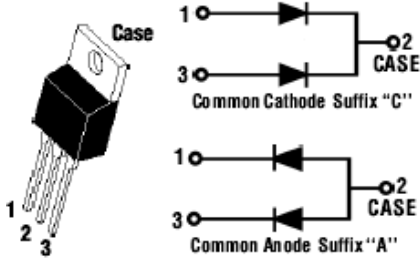


**10 Amp High Voltage  
SCHOTTKY BARRIER  
RECTIFIERS**

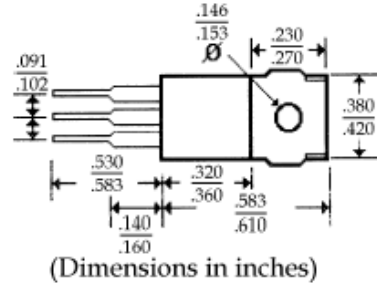
**FBR10 30 .. 10100 Series**

**Description**



**Mechanical Dimensions**

JEDEC  
TO-220AB



**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 <sub>rrm</sub>	30	40	50	60	80	100	V
working Peak Reverse Voltage	V <sub>rwm</sub>	30	40	50	60	80	100	V
DC Blocking Voltage	V <sub>dc</sub>	30	40	50	60	80	100	V
RMS Reverse Voltage	V <sub>r(rms)</sub>	21	28	35	42	56	70	V
Average Forward Rectified Current per leg T <sub>c</sub> =150C @ Rated V <sub>dc</sub>	I <sub>F(av)</sub>	10	10	10	10	10	10	A
Repetitive Peak Forward Surge Current @ Rated V <sub>dc</sub> Square Wave, 20KHz, T <sub>c</sub> =150C	I <sub>fm</sub>	10	10	10	10	10	10	A
Non-Repetitive Peak Forward Surge Current @ Rated Load Cond., 1/2 Wave, Single Phase, 60Hz	I <sub>fsm</sub>	100						A
Operating & storage Temp. Range	T <sub>j</sub> /T <sub>s</sub>	-40~+125						C
Max Forward Voltage @ I <sub>f</sub> =8Amps, PW=300us, T <sub>c</sub> =25C	V <sub>f</sub>	0.55	0.55	0.65	0.75	0.75	0.85	A
Max DC Reverse Current @ Rated DC Blocking Voltage T <sub>c</sub> =125C / T <sub>c</sub> =25C	I <sub>r</sub>	200						uA
Typical Thermal Resistance Junction to Case	R <sub>thjc</sub>	3						C/W
Typical Junction Capacitance	C <sub>j</sub>	400						pF

# 10 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

FIG-1 FORWARD CURRENT DERATING CURVE

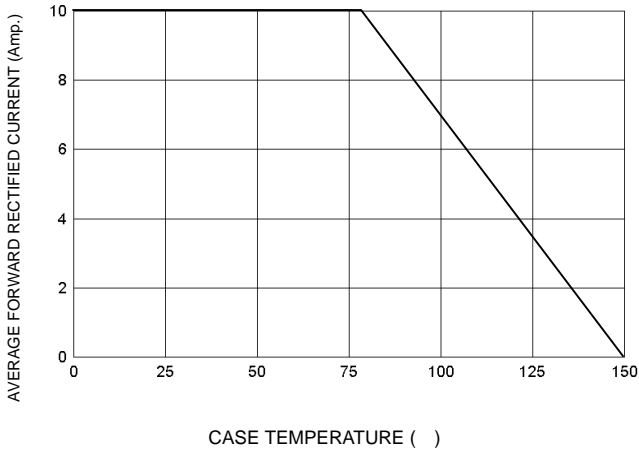


FIG-2 TYPICAL FORWARD CHARACTERISTICS

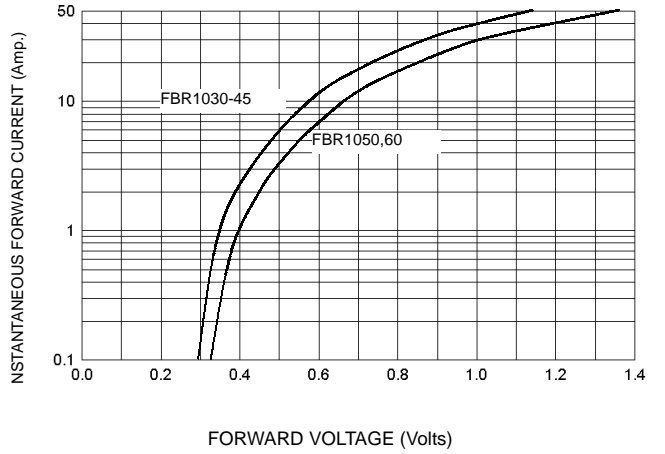


FIG-3 TYPICAL REVERSE CHARACTERISTICS

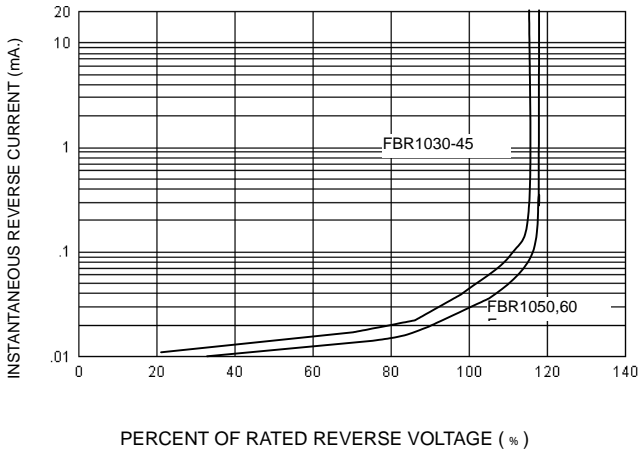


FIG-4 TYPICAL JUNCTION CAPACITANCE

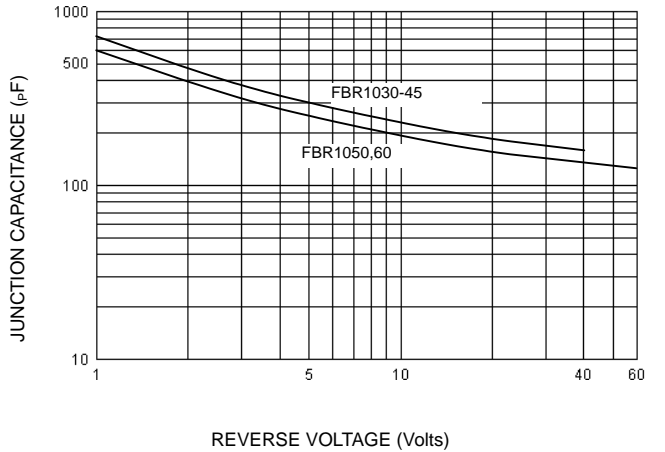


FIG-5 PEAK FORWARD SURGE CURRENT

