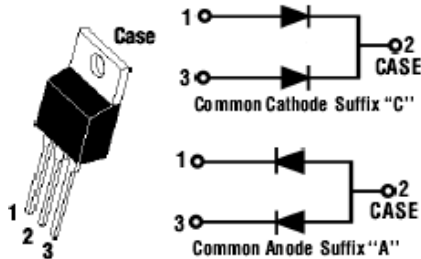


10 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

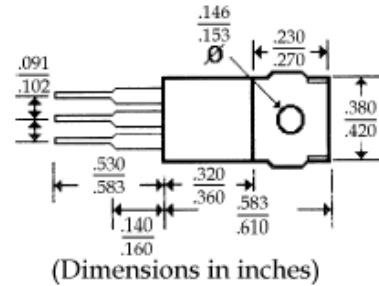
FBR1030 .. 10100Series

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_{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						μA
Typical Thermal Resistance Junction to Case	R_{thjc}	3						C/W
Typical Junction Capacitance	C_j	400						pF

FIG-1 FORWARD CURRENT DERATING CURVE

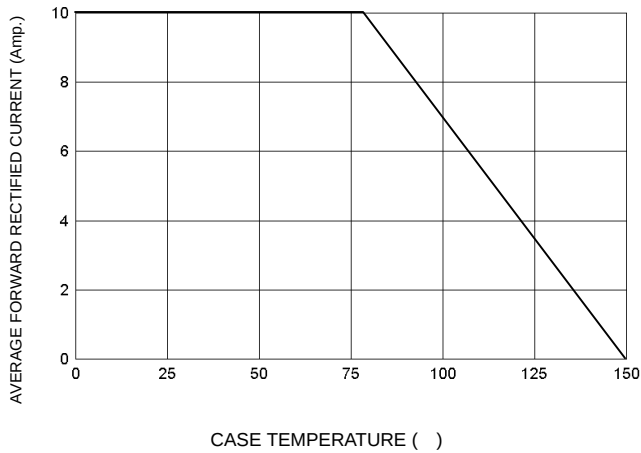


FIG-2 TYPICAL FORWARD CHARACTERISTICS

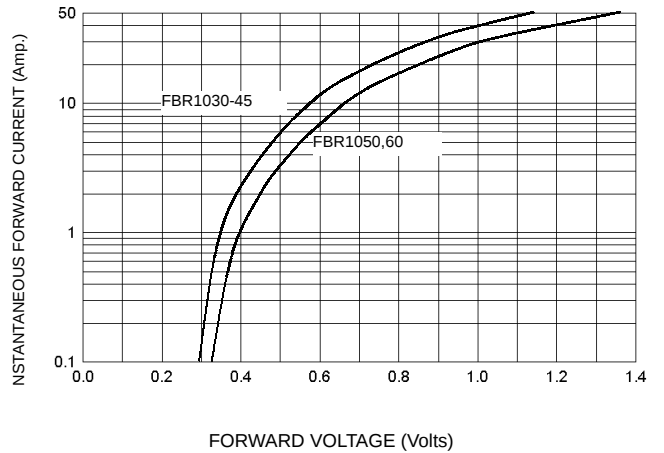


FIG-3 TYPICAL REVERSE CHARACTERISTICS

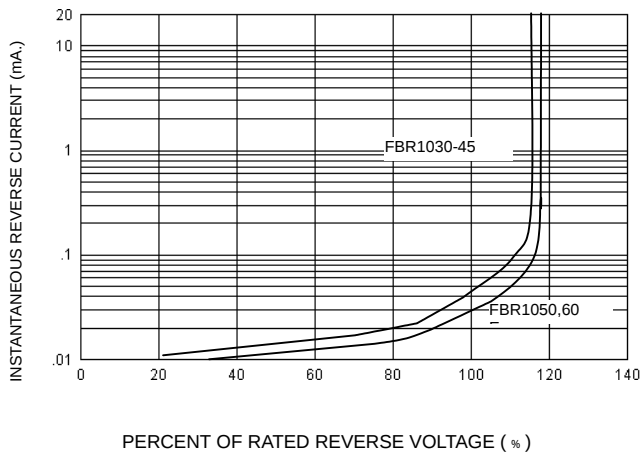


FIG-4 TYPICAL JUNCTION CAPACITANCE

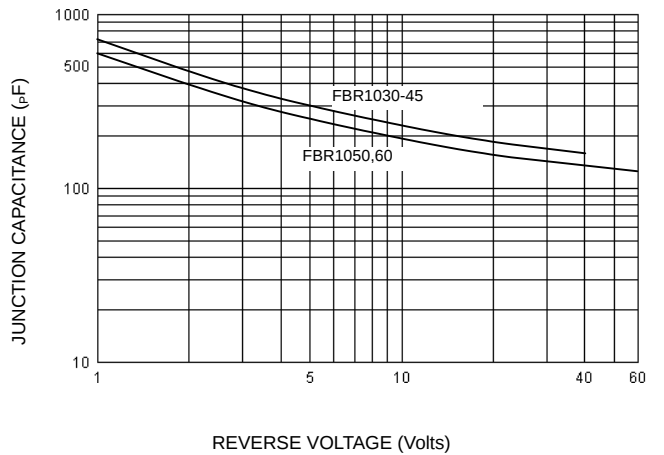


FIG-5 PEAK FORWARD SURGE CURRENT

