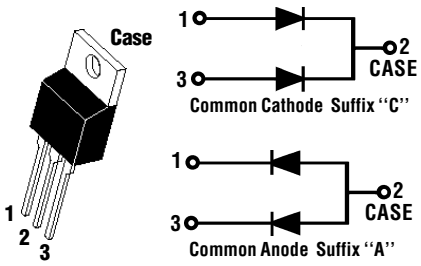
FCI Semiconductor *Data Sheet*

30 Amp SCHOTTKY BARRIER RECTIFIERS

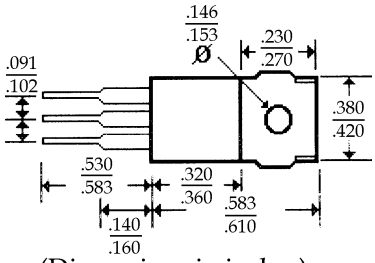
FBR3030~60 SERIES

Description



Mechanical Dimensions

JEDEC TO-220AB



(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**

Maximum Ratings And Electrical Characteristics (Ta=25ボ)

Parameters	Symbol	FBR30						
		30	35	40	45	50	60	Unit
Average forward current, Io at Tc =104ボ 60Hz, Resistive or Inductive Load	IF	3 0 A						
Peak Repetitive Reverse Voltage	VRRM	30	35	40	45	50	60	V
Working Peak Reverse Voltage	V RWM	21	24	28	32	35	42	V
DC Blacking Voltage	VDC	30	35	45	45	50	60	V
Forward Voltage @IF= 5A	VF	0.55				0.65		V
Non-Peak Forward Surge Current, @Rated Load Conditions 8.3mS 1/2 Sine-Wave	IFMS	250A						
Repetitive Peak Reverse Surge Current	IRSM	0.5A						
Electrical Characteristics Max. Reverse Current IR At Rated DC Reverse Voltage. Tc =25/125ボ	IR	1.0 mA 60mA						
Typical thermal Resistance,	RμJC	2ボ/W						
Operating and Storage Temperature Range	To/Ts	-65 to +150ボ/-65 to +150ボ						

S30C50 , S30C60

FIG-1 FORWARD CURRENT DERATING CURVE

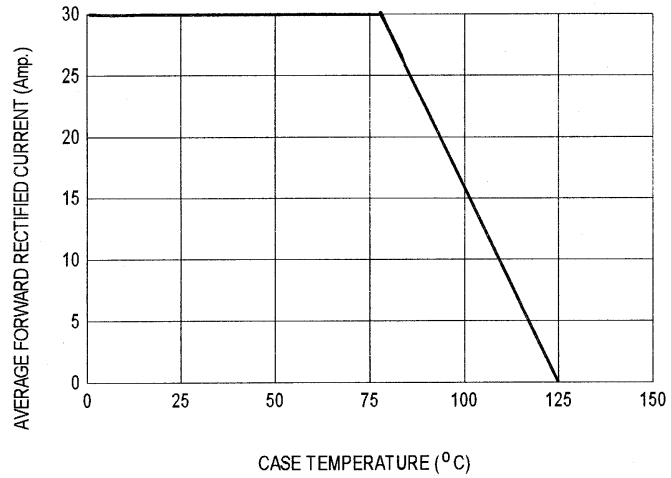


FIG-2 TYPICAL FORWARD CHARACTERISTICS

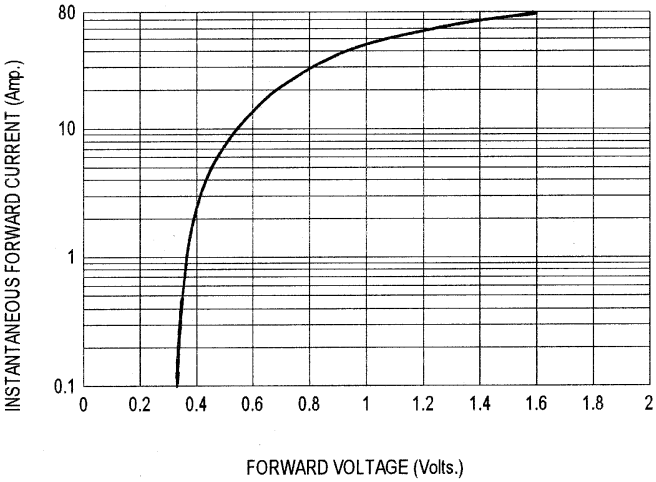


FIG-3 TYPICAL REVERSE CHARACTERISTICS

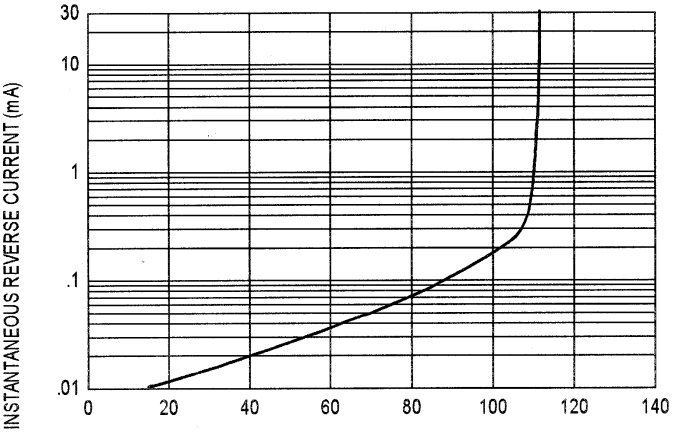


FIG-4 TYPICAL JUNCTION CAPACITANCE

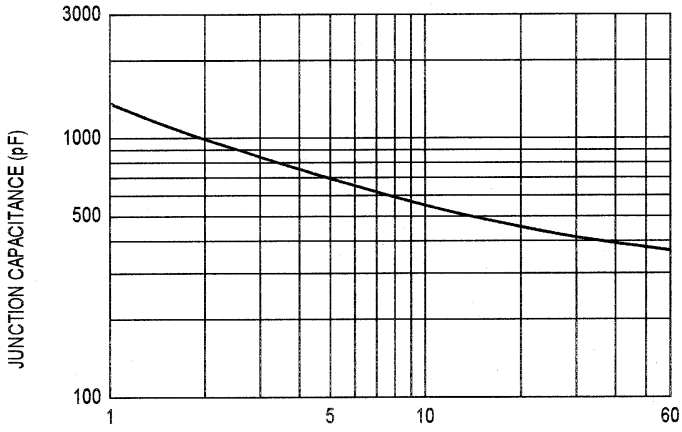


FIG-5 PEAK FORWARD SURGE CURRENT

