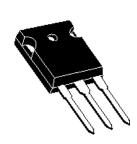
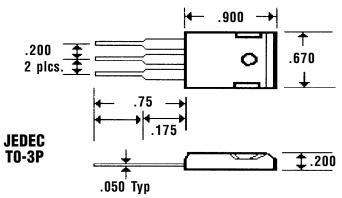
30 Amp 90 & 100V SCHOTTKY BARRIER RECTIFIERS

FBR3090 & 30100 Series

Description

Mechanical Dimensions





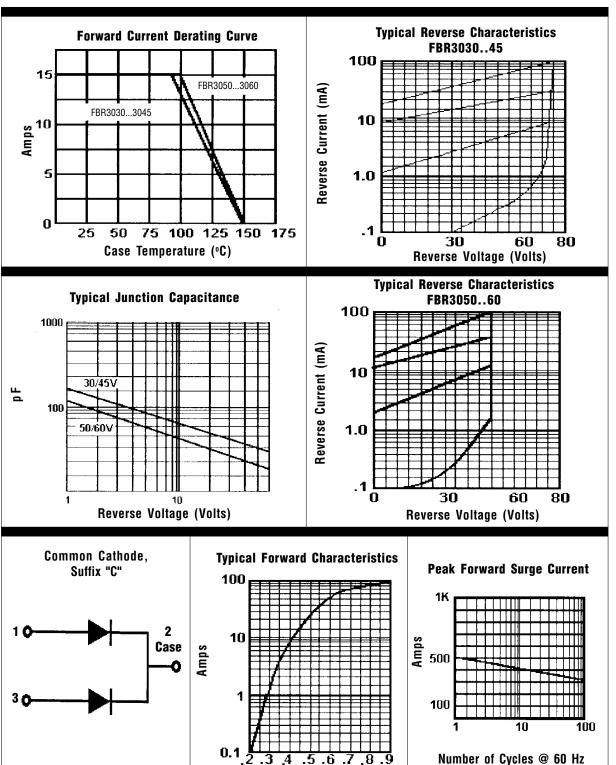
Features

- HIGH CURRENT CAPABILITY WITH LOW V_F
- HIGH EFFICIENCY w/LOW POWER LOSS
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- MEETS UL SPECIFICATION 94V-0

| Electrical Characteristics @ 25°C. | FBR3090 & 30100 | | Units |
|---|-----------------|----------|----------------|
| Maximum Ratings | FBR3090 | FBR30100 | |
| Peak Repetitive Reverse VoltageV _{RRM} | 90 | 100 | Volts |
| Working Peak Reverse VoltageV _{RWM} | 90 | 100 | Volts |
| DC Blocking VoltageV _{DC} | 90 | 100 | Volts |
| RMS Reverse VoltageV _R (rms) | 21 | 42 | Volts |
| Average Forward Rectified Current I_0 @ $T_C = 110$ °C V_R (equiv.) $< = 0.2V_{R(DC)}$ | 30 | | Amps |
| Non-Repetitive Peak Forward Surge CurrentI _{FSN} @ Rated Load Conditions, ½ Sine Wave, Single Phase, 60 | | 0 | Amps |
| Forward VoltageV _F @ I _F = 15 Amps | | j | Volts |
| DC Reverse Current I_R @ Rated DC Blocking Voltage $T_c = 25^{\circ}C$ $T_c = 150^{\circ}C$ | 10 |) | mAmps mAmps |
| Operating Temperature RangeT _J | 65 to | 150 | °C |



30 Amp 90 & 100V SCHOTTKY BARRIER RECTIFIERS



Forward Voltage (Volts)

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%.

- NOTES: 1. Measured @ 1 MHZ and applied reverse voltage of 4.0V.
 - 2. Thermal Resistance Junction to Case, Jedec Method.
 - 3. When Mounted to heat sink, from body.