

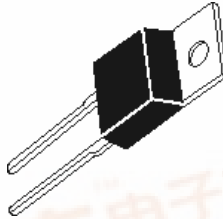


Data Sheet

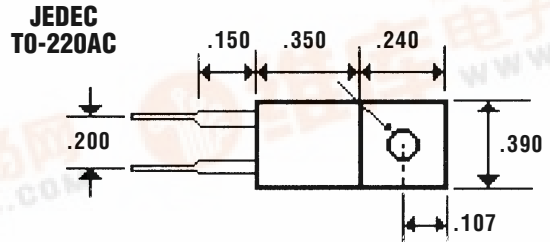
10 Amp SCHOTTKY BARRIER RECTIFIERS

FBR1035 & 1045

Description



Mechanical Dimensions



Features

- HIGH CURRENT CAPABILITY WITH LOW V_F
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- SUPERIOR METAL PROCESS
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.		FBR1035 & 1045		Units
Maximum Ratings		FBR1035	FBR1045	
Peak Repetitive Reverse Voltage... V_{RRM}		35	45	Volts
Working Peak Reverse Voltage... V_{RWM}		35	45	Volts
DC Blocking Voltage... V_{DC}		35	45	Volts
RMS Reverse Voltage... $V_{R(rms)}$		24	31	Volts
Average Forward Rectified Current... $I_{F(av)}$	$T_C = 110^\circ\text{C}$	10		Amps
Repetitive Peak Forward Surge Current... I_{FM}		20		Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM}	@ Rated Load Conditions, 1/2 Wave, 60HZ, Single Phase	150		Amps
Forward Voltage... V_F				
@ $I_F = 20$ Amps, 25°C		.84		Volts
@ $I_F = 20$ Amps, 125°C		.72		Volts
@ $I_F = 10$ Amps, 125°C		.57		Volts
DC Reverse Current... I_R	@ Rated DC Blocking Voltage			
$T_L = 25^\circ\text{C}$		.1		mAmps
$T_L = 125^\circ\text{C}$		15		mAmps
Operating Temperature Range... T_J		-65 to 150		°C
Storage Temperature Range... T_{STRG}		-65 to 175		°C

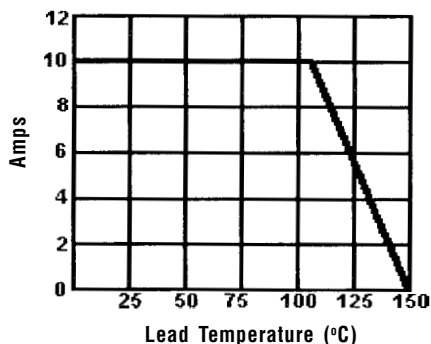




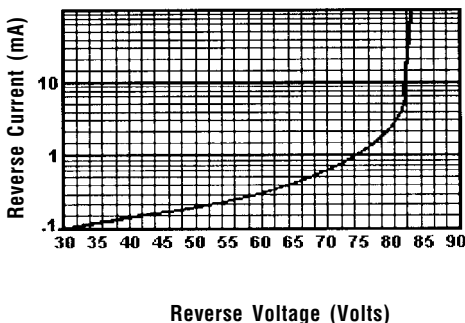
10 Amp SCHOTTKY BARRIER RECTIFIERS

FBR1035 & 1045

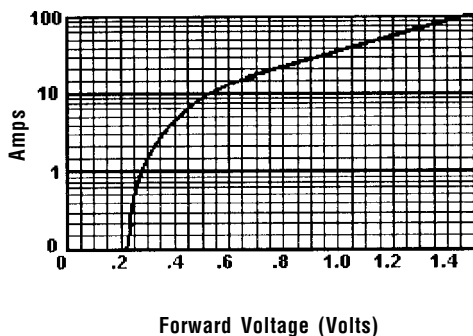
Forward Current Derating Curve



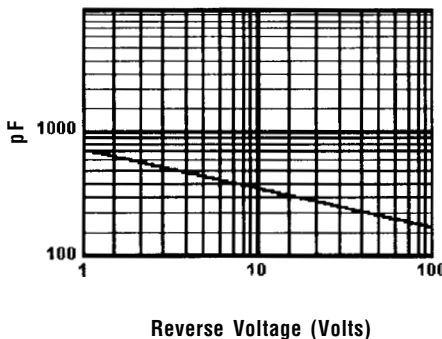
Typical Reverse Characteristics



Typical Forward Characteristics



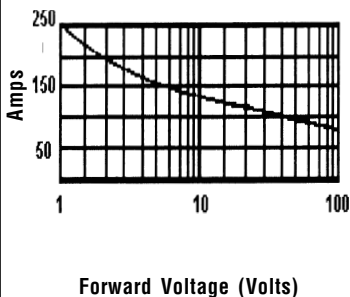
Typical Junction Capacitance



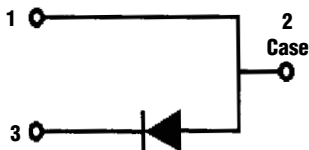
Case Positive, No
Suffix Required



Typical Forward Characteristics



Case Negative, Use
Suffix "R"



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.