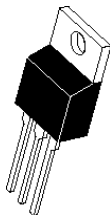
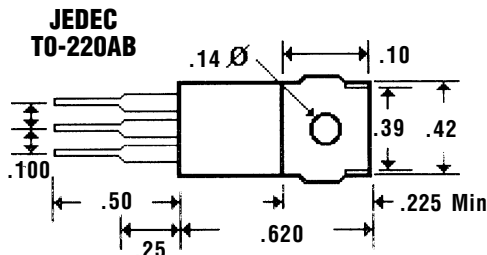


## Description



## Mechanical Dimensions



## Features

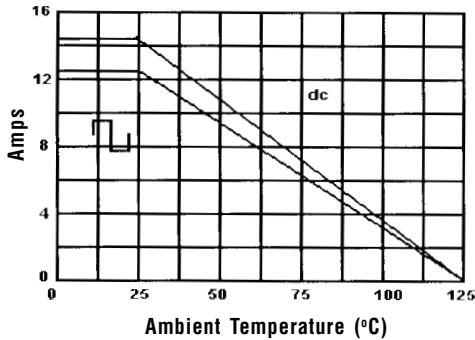
- **HIGH CURRENT CAPABILITY WITH LOW  $V_F$**
- **HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION**
- **HIGH EFFICIENCY w/LOW POWER LOSS**
- **MEETS UL SPECIFICATION 94V-0**

Electrical Characteristics @ 25°C.		FBR2535CTL & 2545CTL		Units
Maximum Ratings		FBR2535CTL	FBR2545CTL	
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
Pulse Test 0.5 mS, Duty Cycle 1/140				
Average Forward Rectified Current... $I_{F(av)}$		12.5		Amps
$T_c = 110^{\circ}\text{C}$ (Rated $V_R$ )				
Repetitive Peak Forward Surge Current... $I_{FM}$		25		Amps
$T_c = 95^{\circ}\text{C}$ (Rated $V_{R1}$ , Square Wave, 20KHZ) Per Leg				
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$		150		Amps
@ Rated Load Conditions, ½ Sine Wave, Single Phase, 60HZ				
Repetitive Peak Reverse Surge Current... $I_{RSM}$		1.0		Amps
@ 2uS PW, F = 1.0 KHZ				
Forward Voltage... $V_F$				
Per Leg, 300uS, 2% Duty Cycle @ $I_F = 25$ Amps, 25°C	< 0.55 >	< 0.6 >		Volts
Per Leg, 300uS, 2% Duty Cycle @ $I_F = 12.5$ Amps, 25°C	< 0.47 >	< 0.52 >		Volts
Per Leg, 300uS, 2% Duty Cycle @ $I_F = 12.5$ Amps, 125°C	< 0.41 >	< 0.46 >		Volts
DC Reverse Current (@ $V_R = V_{RWM}$ )... $I_R$				
@ Rated DC Blocking Voltage	$T_c = 25^{\circ}\text{C}$	5.0		mAmps
	$T_c = 125^{\circ}\text{C}$	< 500 >		mAmps
	$T_c = 100^{\circ}\text{C}$	< 500 >		mAmps
Thermal Resistance, Junction to Case... $R_{\theta JC}$		2.0		°C / W
Voltage Rate of Change (Rated $V_R$ )		1000		V / μS
Controlled Avalanche Energy... $W_{AVAL}$		20		mJ
Operating Temperature Range... $T_J$		-65 to 125		°C
Storage Temperature Range... $T_{STRG}$		-65 to 150		°C

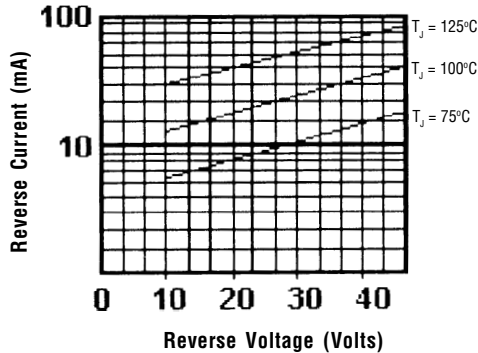
# 25 Amp SCHOTTKY BARRIER RECTIFIERS

**FBR2535CTL & 2545CTL**

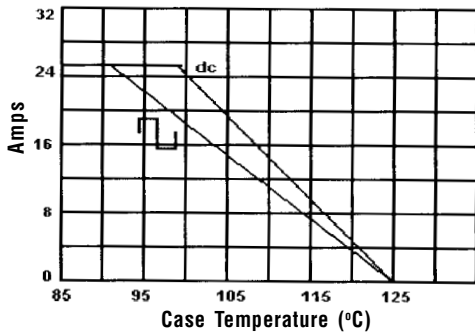
**Current Derating, Per Leg**



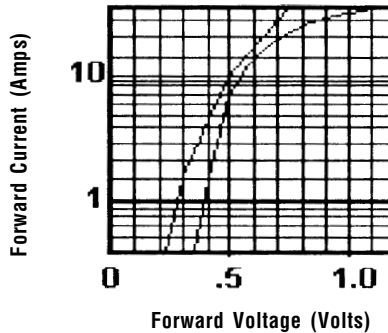
**Typical Reverse Current**



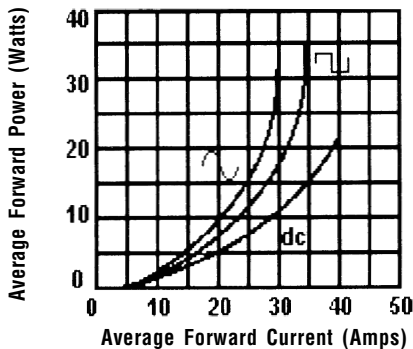
**Current Derating**



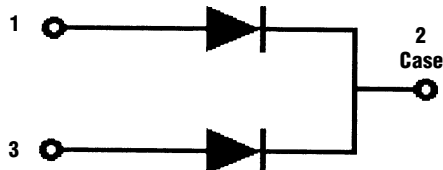
**Forward Characteristics**



**Forward Power Dissipation**



**Common Cathode,  
Suffix "C"**



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.