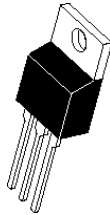
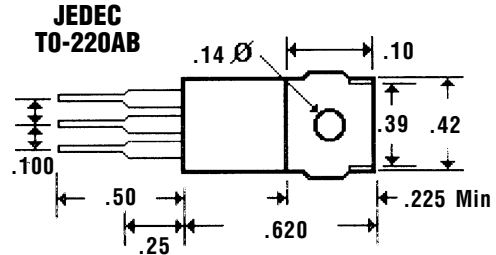


Description



Mechanical Dimensions



Features

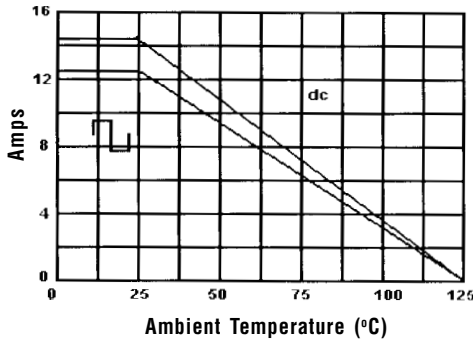
- HIGH CURRENT CAPABILITY WITH LOW V_F
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.		FBR2535CTL & 2545CTL		Units
Maximum Ratings				
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_R , Square Wave, 20KHZ) Per Leg				
Non-Repetitive Peak Forward Surge Current... I_{FSM}		150		Amps
@ Rated Load Conditions, 1/2 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				Volts
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 (@ $V_R = V_{RRM}$)... I_R		5.0		mAmps
@ Rated DC Blocking Voltage				
$T_C = 25^\circ\text{C}$		500		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_{AVAIL}		20		mJ
Operating Temperature Range... T_J		-65 to 125		°C
Storage Temperature Range... T_{STRG}		-65 to 150		°C

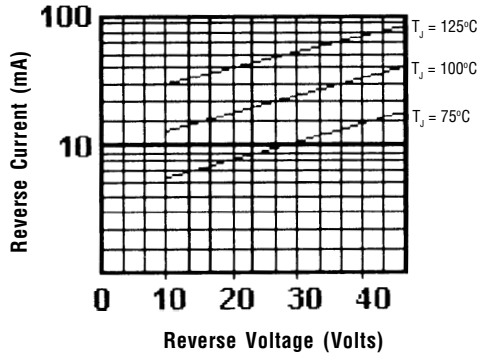
25 Amp SCHOTTKY BARRIER RECTIFIERS

FBR2535CTL & 2545CTL

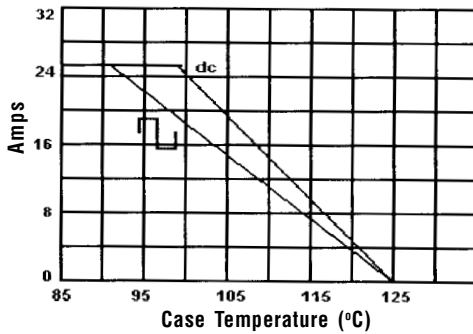
Current Derating, Per Leg



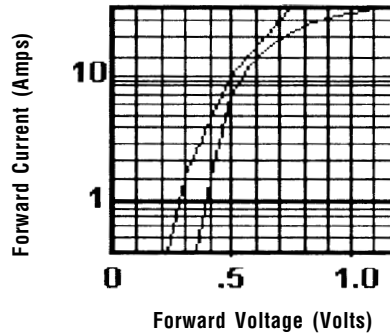
Typical Reverse Current



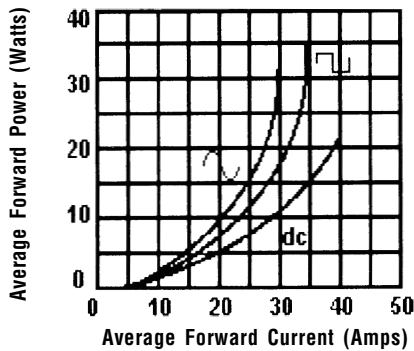
Current Derating



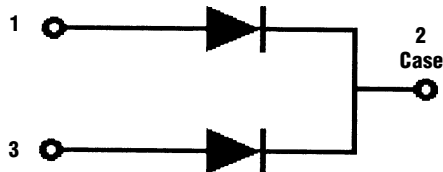
Forward Characteristics



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.