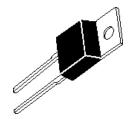


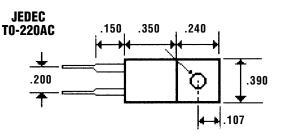
16 Amp SCHOTTKY BARRIER RECTIFIERS

FBR1635& 1645

Description

Mechanical Dimensions





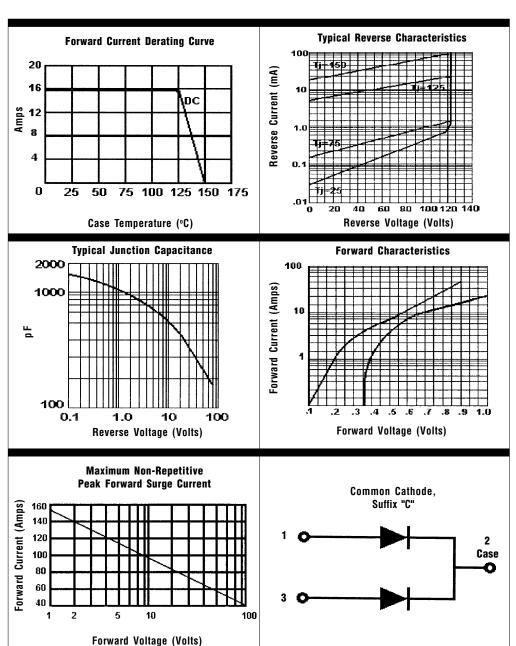
Features

- 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.	FBR1635 & 1645		Units
Maximum Ratings	FBR1635	FBR1645	
Peak Repetitive Reverse VoltageV	35	45	Volts
Working Peak Reverse VoltageV _{RWM}	35	45	Volts
DC Blocking VoltageV _{DC}	35	45	Volts
Average Forward Rectified CurrentI _{F(av)} @ T _C = 125°C		16	Amps
Repetitive Peak Forward Surge Current I_{FM} $T_c = 125^{\circ}C$ (Rated V_{R} , Square Wave, 20KHZ)		32	Amps
Non-Repetitive Peak Forward Surge CurrentI _{FSM} @ Rated Load Conditions, 8.3mS, ½ Sine Wave, Jedec Method		150	Amp
Repetitive Peak Reverse Surge CurrentI _{RSM} @ 2uS PW, F = 1.0 KHZ		1.0	Amp
Forward VoltageV $_{\rm F}$ 300uS, 2% Duty Cycle @ I $_{\rm F}$ = 16 Amps, 25°C 300uS, 2% Duty Cycle @ I $_{\rm F}$ = 16 Amps, 125°C		63	Volts Volts
DC Reverse Current (@ $V_R = V_{RM}$) I_R @ Rated DC Blocking Voltage $T_C = 25^{\circ}C$ $T_C = 125^{\circ}C$			mAmı mAmı
Thermal Resistance, Junction to CaseR _{eJC}		1.5	°C / V
Voltage Rate of Change (Rated V _R)		1000	V / μ
Operating Temperature RangeT _J		65 to 150	°C
Storage Temperature RangeT _{STRG}		65 to 175	°C



16 Amp SCHOTTKY BARRIER RECTIFIERS



- 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.

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%.