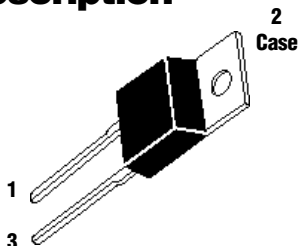
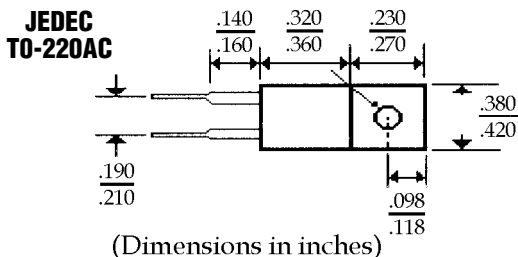


SR830~SR845

## Description



## Mechanical Dimensions



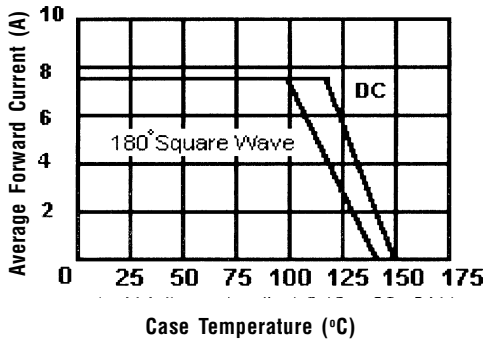
## Features

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

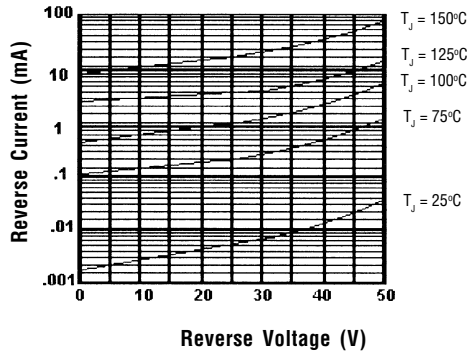
SR830~845 Series					Units
Maximum Ratings	SR830	SR835	SR840	SR845	
Peak Repetitive Reverse Voltage... $V_{RRM}$	30	35	40	45	Volts
RMS Reverse Voltage... $V_{RWM}$	30	35	40	45	Volts
DC Blocking Voltage... $V_{DC}$	30	35	40	45	Volts
Average Forward Rectified Current... $I_o$ $T_c = 105^\circ C$	8.0				Amps
Repetitive Peak Forward Surge Current... $I_{FM}$	16				Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Current & Temp	120				Amps
Repetitive Peak Reverse Surge Current... $I_{RSM}$ Sinosoidal Wave, 60Hz, 1 Cycle, $T_j = 125^\circ C$	1.0				Amps
Operating Temperature Range... $T_j$	-65 to 150				$^\circ C$
Storage Temperature Range... $T_{STRG}$	-65 to 175				$^\circ C$
<b>Electrical Characteristics</b>					
Maximum Forward Voltage... $V_F$ @ $I_F = 8.0$ Amps, $T_c = 125^\circ C$	.57				Volts
@ $I_F = 15$ Amps, $T_c = 125^\circ C$	.72				Volts
@ $I_F = 15$ Amps, $T_c = 25^\circ C$	.84				Volts
Maximum DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage $T_L = 25^\circ C$	2.0				mAmps
$T_L = 125^\circ C$	15				mAmps
Maximum Thermal Resistance... $R_{\theta JC}$	3.0				$^\circ C / W$
Maximum Thermal Resistance... $R_{\theta JA}$	60				$^\circ C / W$

# 8.0 Amp SCHOTTKY BARRIER RECTIFIERS

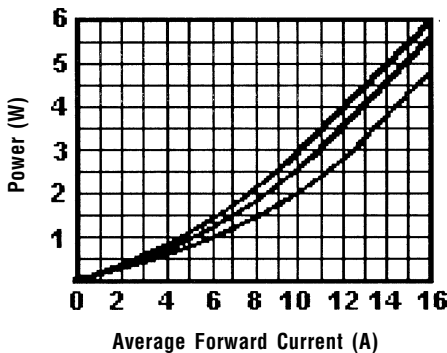
**Forward Current Derating Curve**



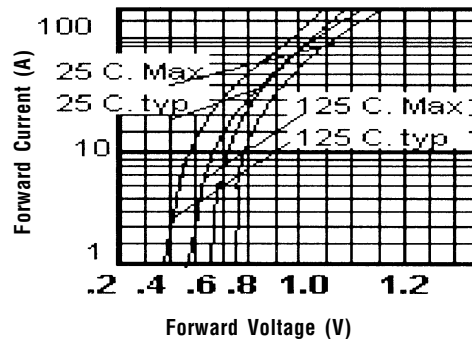
**Typical Reverse Characteristics**



**Forward Power Dissipation**



**Typical Forward Characteristics**

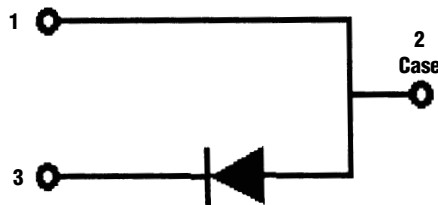


## Electrical Description

Case Cathode, No Suffix Required



Case Anode, 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%.