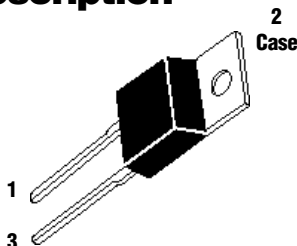


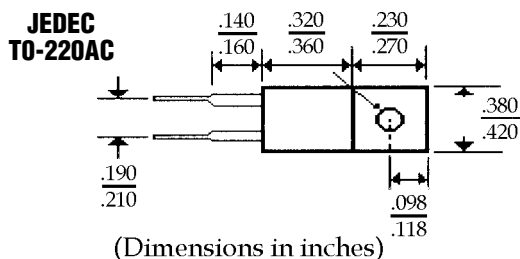
8.0 Amp SCHOTTKY BARRIER RECTIFIERS

SR830~SR845

Description



Mechanical Dimensions



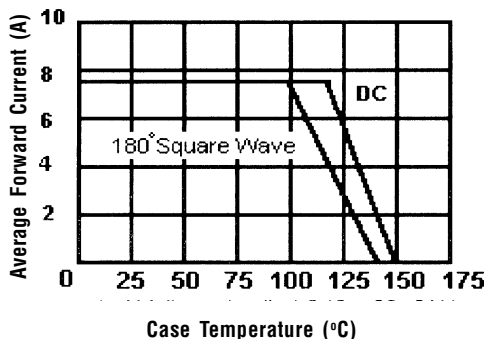
Features

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

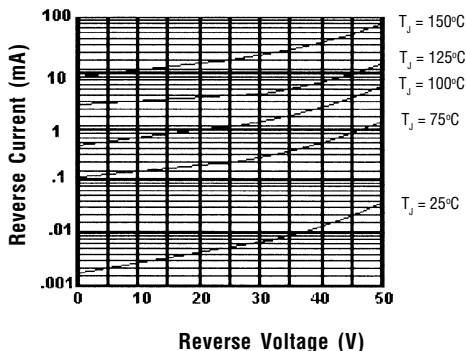
SR830~845 Series					Units
Maximum Ratings	SR830	SR835	SR840	SR845	
Peak Repetitive Reverse Voltage... V_{RRM}	30	35	40	45	Volts
RMS Reverse Voltage... V_{RWM}	30	35	40	45	Volts
DC Blocking Voltage... V_{DC}	30	35	40	45	Volts
Average Forward Rectified Current... I_o $T_c = 105^{\circ}\text{C}$	8.0		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

8.0 Amp SCHOTTKY BARRIER RECTIFIERS

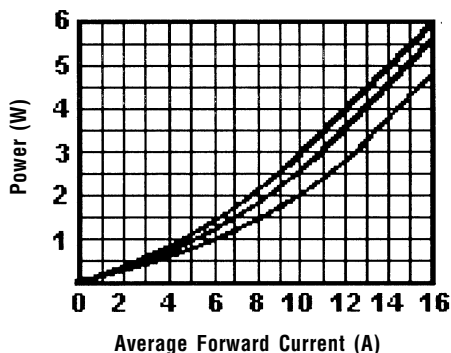
Forward Current Derating Curve



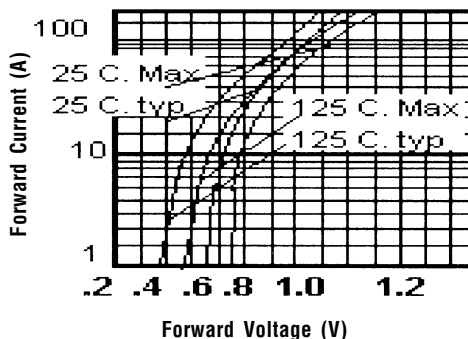
Typical Reverse Characteristics



Forward Power Dissipation



Typical Forward Characteristics

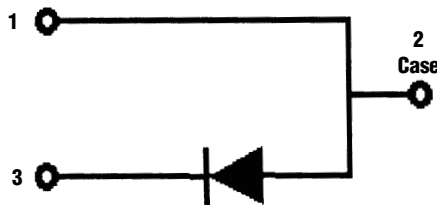


Electrical Description

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%.