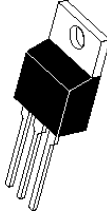
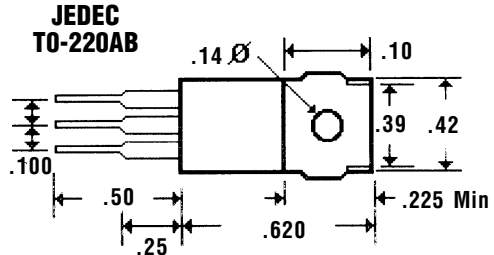


Description



Mechanical Dimensions



Features

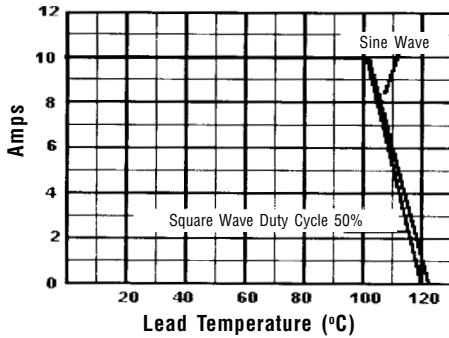
- HIGH CURRENT CAPABILITY WITH LOW V_F
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	SR1030 . . . 1045 Series				Units
Maximum Ratings	SR1030	SR1035	SR1040	SR1045	
Peak Repetitive Reverse Voltage... V_{RRM}	30	35	40	45	Volts
Working Peak 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 $T_c = 104^\circ\text{C}$	..... 10				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, Sinusoidal Wave, 60HZ, 1 Cycle, $T_j = 125^\circ\text{C}$	..... 100				Amps
Forward Voltage @ 5.0 A... V_F	..... .55				Volts
DC Reverse Current... I_R @ Rated DC Blocking Voltage	..... 5.0				mAmps
Thermal Resistance, Junction to Case... $R_{\theta JC}$	..... 3.0				°C / W
Operating Temperature Range... T_j	..... -40 to 125				°C
Storage Temperature Range... T_{STRG}	..... + 125				°C

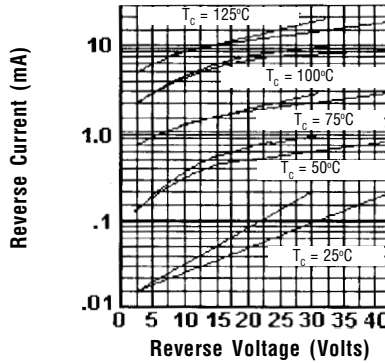
10 Amp SCHOTTKY BARRIER RECTIFIERS

SR1030... 1045 Series

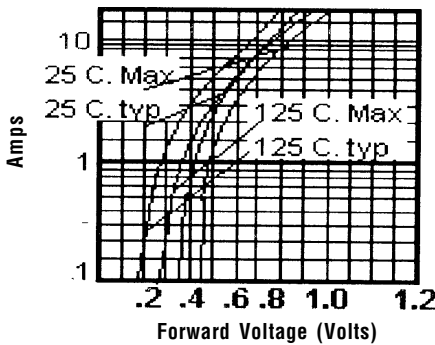
Forward Current Derating Curve



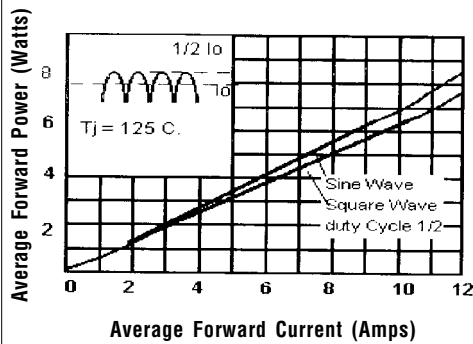
Typical Reverse Characteristics



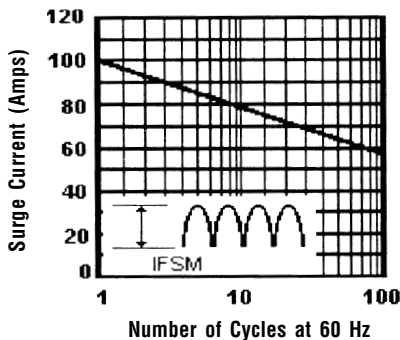
Typical Forward Characteristics



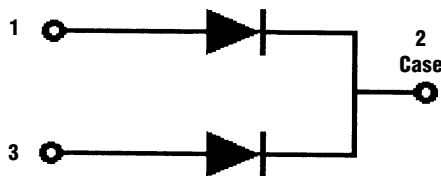
Forward Power Dissipation



Maximum Surge Capability



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.