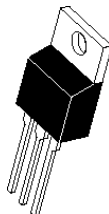


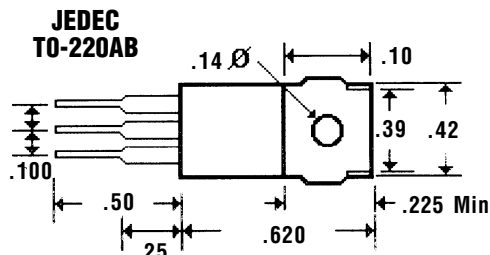
10 Amp SCHOTTKY BARRIER RECTIFIERS

SR1030...1045 Series

Description



Mechanical Dimensions



Features

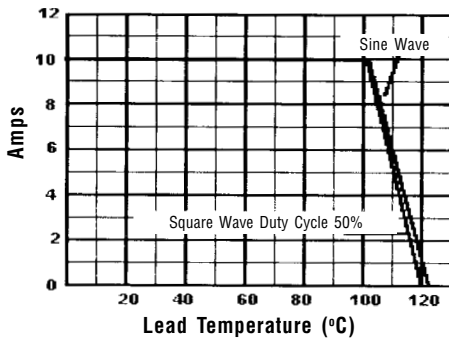
- **HIGH CURRENT CAPABILITY WITH LOW V_F**
- **HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION**
- **HIGH EFFICIENCY w/LOW POWER LOSS**
- **MEETS UL SPECIFICATION 94V-0**

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

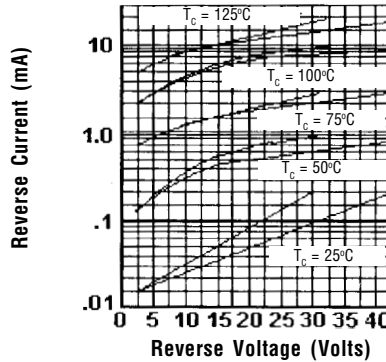
10 Amp SCHOTTKY BARRIER RECTIFIERS

SR1030... 1045 Series

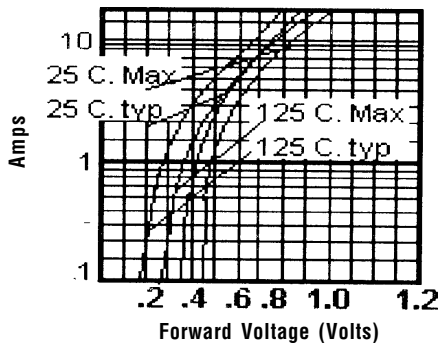
Forward Current Derating Curve



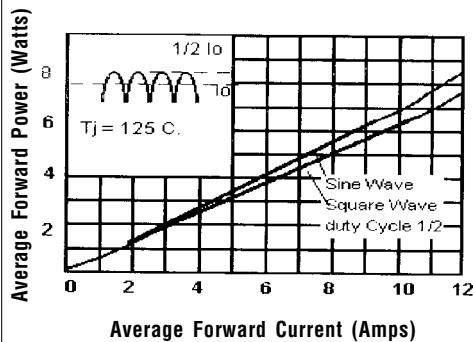
Typical Reverse Characteristics



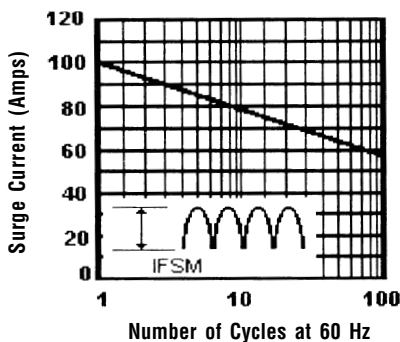
Typical Forward Characteristics



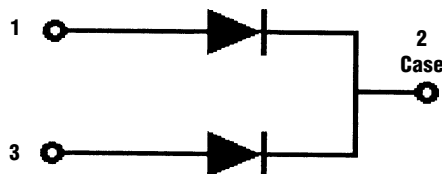
Forward Power Dissipation



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.