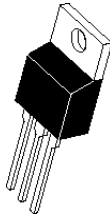
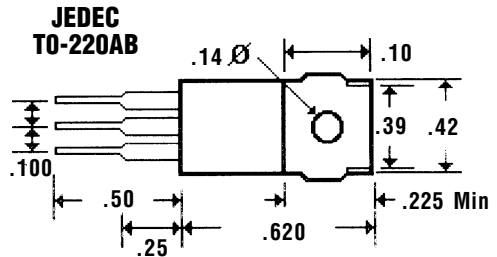


Description



Mechanical Dimensions

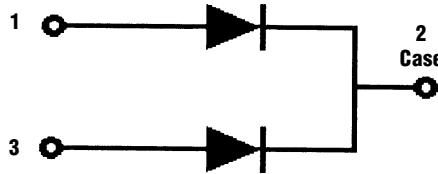


Features

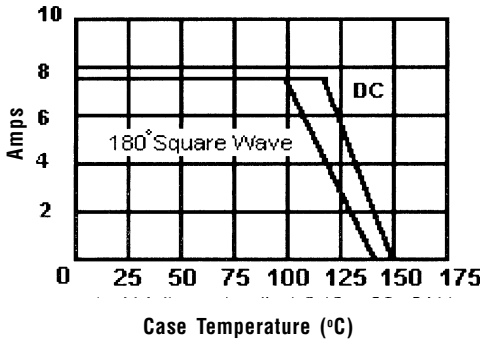
- HIGH CURRENT CAPABILITY WITH LOW V_F
- HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION
- HIGH EFFICIENCY w/LOW POWER LOSS
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	SR1630 . . . 1645 Series				Units
Maximum Ratings	SR1630	SR1635	SR1640	SR1645	
Peak Repetitive Reverse Voltage... V_{RRM} Pulse Test 0.5 mS, Duty Cycle 1/40	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 @ $T_c = 110^\circ\text{C}$	16				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, Sinusoidal Wave, 60HZ, 1 Cycle, $T_j = 125^\circ\text{C}$	150				Amps
Forward Voltage @ 5.0 Amps... V_F	.55				Volts
DC Reverse Current (@ $V_R = V_{RM}$)... 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

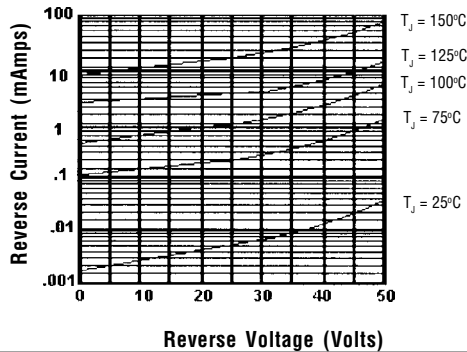
Common Cathode,
Suffix "C"



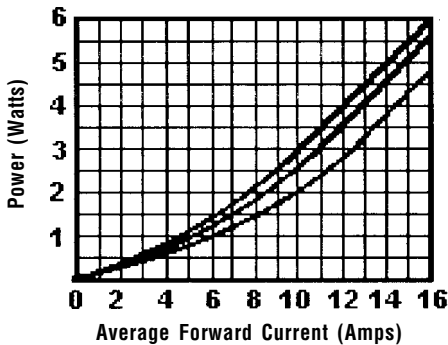
Forward Current Derating Curve



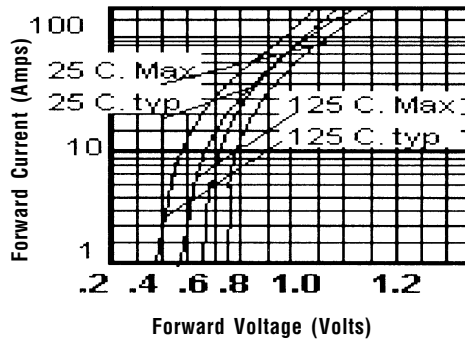
Typical Reverse Current



Forward Power Dissipation



Forward Characteristics



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.