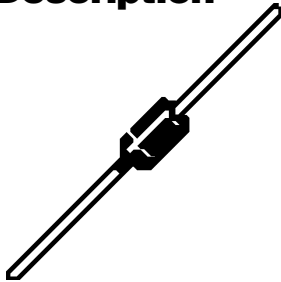


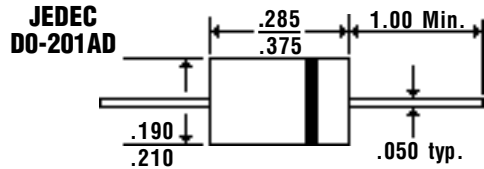
# 3.0 Amp SCHOTTKY RECTIFIERS

**SR390 and 3100**

## Description



## Mechanical Dimensions



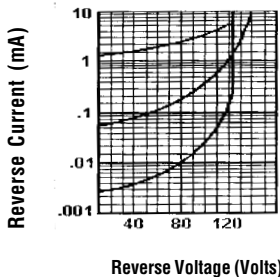
## Features

- EXTREMELY LOW  $V_F$
- LOW POWER LOSS — HIGH EFFICIENCY
- LOW STORED CHARGE; MAJORITY CARRIER CONDUCTION
- MEETS UL SPECIFICATION 94V-0

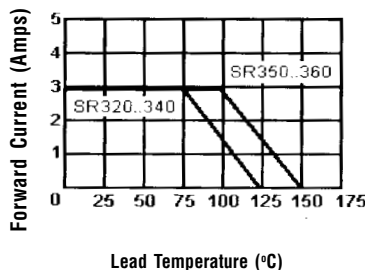
### Electrical Characteristics @ 25°C.

|  | SR390 and SR3100                                      |            | Units                       |
|--|---|------------|-----------------------------|
|  | SR390   | SR3100     |                             |
| <b>Maximum Ratings</b>   |   |            |                             |
| Peak Repetitive Reverse Voltage... $V_{RRM}$   | 90  | 100        | Volts                       |
| Working Peak Reverse Voltage... $V_{RWM}$  | 90  | 100        | Volts                       |
| DC Blocking Voltage... $V_{DC}$  | 90  | 100        | Volts                       |
| Average Forward Rectified Current... $I_{F(av)}$<br>@ $T_A = 55^\circ\text{C}$                     | 3.0   |            | Amps                        |
| Non-Repetitive Peak Forward Surge Current... $I_{FSM}$<br>@ Rated Load Conditions, 1/2 Wave, 8.3ms | 150   |            | Amps                        |
| Forward Voltage... $V_F$<br>@ $I_F = 1.0$ Amps   | $T_L = 25^\circ\text{C}$<br>$T_L = 100^\circ\text{C}$ | .79<br>.69 | Volts                       |
| DC Reverse Current... $I_R$<br>@ Rated DC Blocking Voltage   | $T_L = 25^\circ\text{C}$<br>$T_L = 100^\circ\text{C}$ | 0.1<br>0.6 | mAmps                       |
| Thermal Resistance... $R_{\theta JL}$  | 10.0  |            | $^\circ\text{C} / \text{W}$ |
| Operating Temperature Range... $T_J$   | -65 to 150  |            | $^\circ\text{C}$            |

Typical Reverse Characteristics



Forward Current Derating Curve



Typical Junction Capacitance

