## TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

## VOLTAGE RANGE - 20 to 100 Volts

CURRENT - 5.0 Amperes


|  | SYMBOL | SR520 | SR530 | SR540 | SR550 | SR560 | SR580 | SR5100 | UNITS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 20 | 30 | 40 | 50 | 60 | 80 | 100 | Volts |
| Maximum RMS Voltage | VRMS | 14 | 21 | 28 | 35 | 42 | 56 | 70 | Volts |
| Maximum DC Blocking Voltage | VDC | 20 | 30 | 40 | 50 | 60 | 80 | 100 | Volts |
| Maximum Average Forward Rectified Current . $375 *$ ( 9.5 mm ) lead length | 10 | 5.0 |  |  |  |  |  |  | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 150 |  |  |  |  |  |  | Amps |
| Maximum Instantaneous Forward Voltage at 5.0A DC | VF |  | . 55 |  |  |  |  | 5 | Volts |
| Maximum DC Reverse Current $\quad$ @ $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$ | IR | 2.0 |  |  |  |  |  |  | mAmps |
| at Rated DC Blocking Voltage $@^{\text {a }}$ T $\mathrm{A}=100^{\circ} \mathrm{C}$ |  | 50 |  |  |  |  |  |  |  |
| Typical Thermal Resistance (Note 1) | R J | 18 |  |  |  |  |  |  | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
| Typical Junction Capacitance (Note 2) | CJ | 550 |  |  | 400 |  |  |  | pF |
| Operating Temperature Range | TJ | -65 to +150 |  |  |  |  |  |  | ${ }^{\circ} \mathrm{C}$ |
| Storage Temperature Range | Tstg | -65 to +150 |  |  |  |  |  |  | ${ }^{0} \mathrm{C}$ |

NOTES : 1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, $0.5^{*}(12.7 \mathrm{~mm})$ Lead Length.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT


