

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| TYPE NUMBER | 1N5820 | 1N5821 | 1N5822 | UNITS |
|--|--------|----------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | 20 | 30 | 40 | V |
| Maximum RMS Voltage | 14 | 21 | 28 | V |
| Maximum DC Blocking Voltage | 20 | 30 | 40 | V |
| Maximum Average Forward Rectified Current | | 1 | | |
| .375"(9.5mm) Lead Length at Ta=90°C | | 3.0 | | |
| Peak Forward Surge Current, 8.3 ms single half sine-wave | | | | |
| superimposed on rated load (JEDEC method) | | 80 | | |
| Maximum Instantaneous Forward Voltage at 3.0A | .475 | .500 | .525 | V |
| Maximum DC Reverse Current Ta=25°C | | 2.0 | | |
| at Rated DC Blocking Voltage Ta=100°C | | 20 | | |
| Typical Junction Capacitance (Note1) | | 250 | | |
| Typical Thermal Resistance RqJA (Note 2) | | 20 | | °C/W |
| Operating Temperature Range TJ | | -65-+125 | | |
| Storage Temperature Range Tstg | | -65-+150 | | |

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

