The IN298 is a hermetically sealed point contact germanium diode designed for use in general purpose rectifier applications, and in gate leg and buffer circuits in computers. The IN298 is particularly applicable where the back resistance at -40 volts must be at least 160,000 ohms at 50°C. This diode has low shunt capacitance, small size, and is resistant to changes in humidity and temperature.* Operable at temperatures up to 100°C, it can be heated as high as 125°C with no irreversible change in characteristics. Each diode is dynamically tested for hysteresis, drift, and flutter. The IN298 has extremely uniform electrical characteristics and reliable mechanical stability.

MECHANICAL DATA

TERMINALS: Dumet wire, Tinned to within 1/8" of barrel
Diameter: 0.017" max. Length: 1" min.

TERMINAL CONNECTIONS: White Band at Cathode Terminal

MOUNTING POSITION: Any

PLUG - IN EQUIVALENT: Available as IN298-P

ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM VALUES: (at 25°C)

- Inverse Voltage
- Average Rectified Current
- Peak Rectified Current
- Surge Current (for 1 sec.)
- Ambient Temperature Range
- Dissipation at:
  - 25°C
  - 50°C
  - 75°C
  - 100°C

CHARACTERISTICS: (at 50°C)

- Maximum Inverse Current at -40 volts
- Minimum Forward Current at +2 volts
- Shunt Capacitance
- Minimum Reverse Voltage for Zero Dynamic Resistance

* Each diode receives repeated humidity cycling, and additional temperature cycling ranging from -25°C to 130°C.

TYPICAL STATIC CHARACTERISTICS (at 25°C)

Tentative Data