The 1 N 298 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 1N298 is particularly applicable where the back resistance at .40 volts must be at least 160,000 ohms at $50^{\circ} \mathrm{C}$. This diode has low shunt capacitance, small size, and is resistant to changes in humidity and temperature. * Operable at temperatures up to $100^{\circ} \mathrm{C}$, it can be heated as high as $125^{\circ} \mathrm{C}$ with no irreversible change in characteristics. Each diode is dynamically tested for hysteresis, drift, and flutter. The 1 N 298 has extremely uniform electrical characteristics and reliable mechanical stability.

## MECHANICAL DATA

TERMINALS: Dumet wire, Tinned to within $1 / 8^{\prime \prime}$ of barrel Diameter: $0.017^{\prime \prime}$ max. Length: $1^{\prime \prime}$ min.
TERMINAL CONNECTIONS: White Band at Cathode Terminal MOUNTING POSITION: Any PLUG•IN EQUIVALENT: Available as 1 N298-P

## ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM VALUES: ( at $25^{\circ} \mathrm{C}$ )

Inverse Voltage
Average Rectified Current
Peak Rectified Current
Surge Current (for 1 sec. )
Ambient Temperature Range
Dissipations at :
$25^{\circ} \mathrm{C}$
$50^{\circ} \mathrm{C}$
$75^{\circ} \mathrm{C}$
$100^{\circ} \mathrm{C}$

## CHARACTERISTICS: ( at $50^{\circ} \mathrm{C}$ )

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


TYPE 1N298

## (CK713A)


${ }^{\star}$ Each diode receives repeated humidity cycling, and additional temperature cycling ranging from $-25^{\circ} \mathrm{C}$ to $130^{\circ} \mathrm{C}$.


