TYPE

1N294

(CK705A)

.140" max.

.300 . + .002.

Actual Size



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The 1N294 is a hermetically sealed point contact germanium diode designed for use in general purpose rectifier applications and gate leg or buffer circuits in computers. The 1N294 is particularly applicable where high back resistance, small size, absence of heater voltage, low shunt capacitance and resistance to changes in humidity and temperature * are important. 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 1N294 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 1N294-P

ELECTRICAL DATA

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

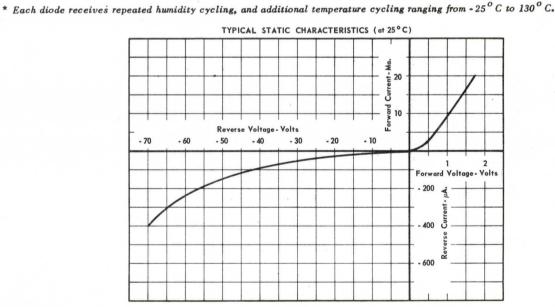
Inverse Voltage		volts
Average Rectified Current	50	
Peak Rectified Current	150	
Surge Current (for 1 sec.)	500	ma.
Ambient Temperature Range	- 50 to + 100	°C
Dissipations at:	V .	
25 ° C	80	mw.
50°C 75°C	65	mw.
75 ° C	50	
100°C	30	mw.
CHARACTERISTICS: (at 25°C)		
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Maximum Inverse Current at - 10 volts Maximum Inverse Current at - 50 volts Minimum Forward Current at + 1 volt Shunt Capacitance Minimum Reverse Voltage for Zero Dynamic Resistance

10 μα. 800 μα. 5.0 ma. 1.0 μμfd. 70 volts max.

350

volts



Tentative Data

RAYTHEON MANUFACTURING COMPANY

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