



*Excellence in Electronics*

**TYPE  
1N68**

(CK708)

The 1N68 is a hermetically sealed point contact germanium diode designed for use in general purpose rectifier applications where a reverse voltage rating up to 100 volts is required. The 1N68 is particularly applicable where 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 1N68 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 1N68-P

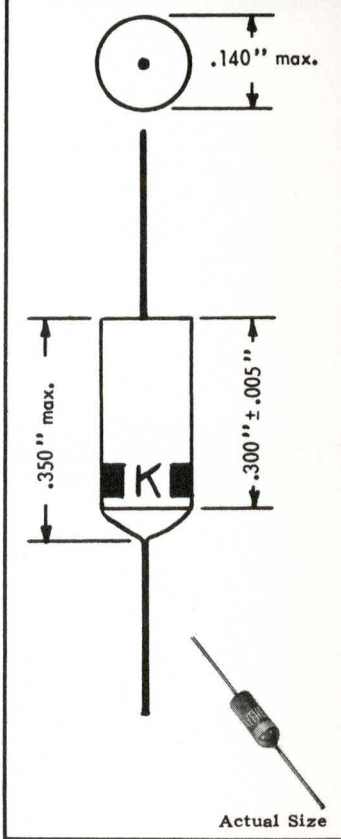
**ELECTRICAL DATA**

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

Inverse Voltage	100 volts
Average Rectified Current	35 ma.
Peak Rectified Current	100 ma.
Surge Current (for 1 sec.)	500 ma.
Ambient Temperature Range	- 50 to + 100 °C
Dissipations at:	
25°C	80 mw.
50°C	65 mw.
75°C	50 mw.
100°C	30 mw.

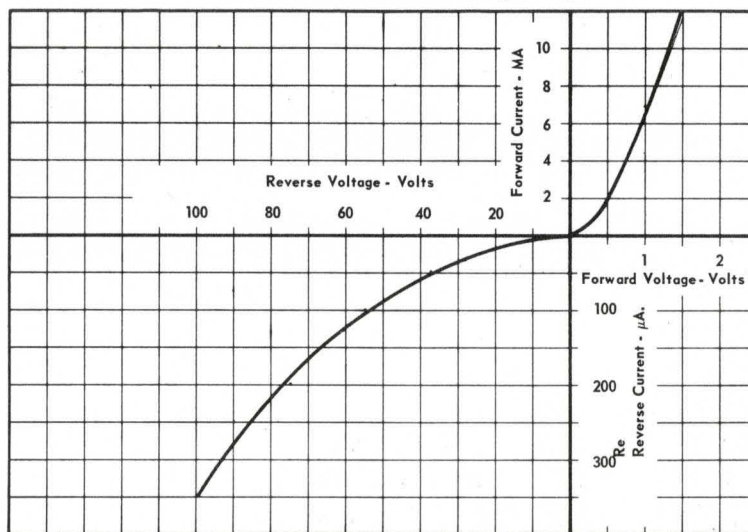
CHARACTERISTICS: (at 25°C)

Maximum Inverse Current at - 100 volts	625 µa.
Minimum Forward Current at + 1 volt	3.0 ma.
Shunt Capacitance	1.0 µµfd.
Minimum Reverse Voltage for Zero Dynamic Resistance	120 volts



\* 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