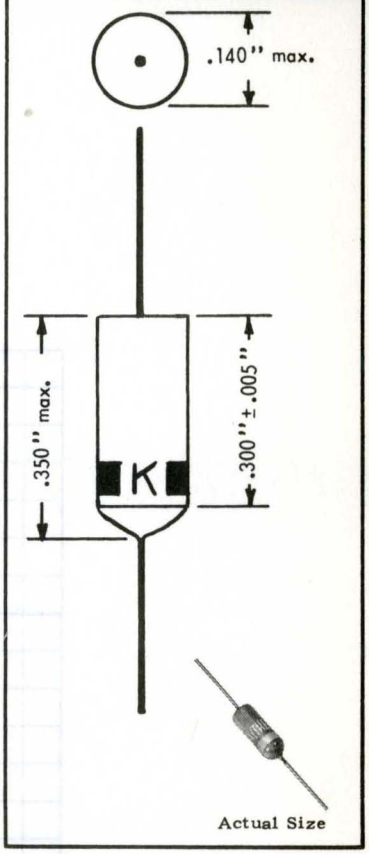
Excellence in Electronics

TYPE 1N295

(CK706A)

The 1N295 is a point contact germanium diode designed for use in general purpose rectifier applications and in video detector circuits in television receivers. The 1N295 is particularly applicable where high rectification efficiencies, small size, absence of heater voltage 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. The 1N295 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 1N295-P

ELECTRICAL DATA

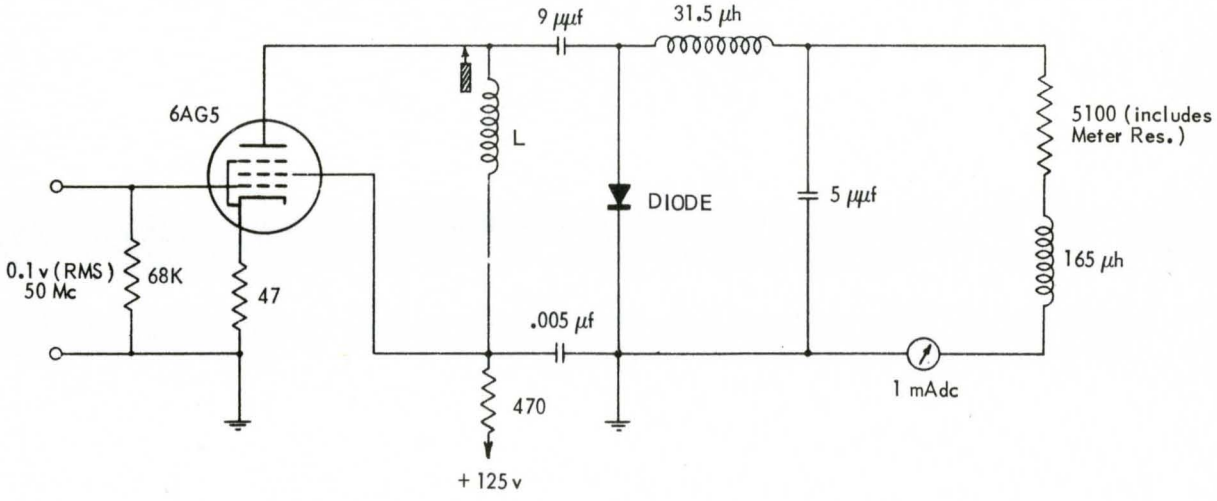
RATINGS - ABSOLUTE MAXIMUM VALUES: (at 25°C)

Inverse Voltage	40 volts
Average Rectified Current	35 ma.
Peak Rectified Current	125 ma.
Surge Current (for 1 sec.)	300 ma.
Ambient Temperature Range	-50 to +100 °C

CHARACTERISTICS: (at 25°C)

Maximum Inverse Current at -10 volts	200 μa.
Minimum Reverse Voltage for Zero Dynamic Resistance	50 volts
Minimum DC Output Current ▲	375 μa.

▲ *At 50 Mc in circuit shown below:*



L = Such value as to resonate at 50 Mc with a Q of 30.

Tentative Data

RAYTHEON

GERMANIUM POINT CONTACT DIODE

TYPICAL STATIC CHARACTERISTICS (at 25°C)