

*Excellence in Electronics***TYPE
1N436**

The 1N436 is a hermetically sealed silicon junction diode designed for use as a voltage regulator or reference when biased in the Zener region. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

CASE: Metal and GlassBASE: None (0.020" tinned kovar wire. Length: 1.5" minimum
Spacing: 0.080" center-to-center)TERMINAL CONNECTIONS: (Black dot is adjacent to cathode terminal.)MOUNTING POSITION: AnyRATINGS - ABSOLUTE MAXIMUM VALUES: (at 25°C)

Ambient Temperature Range

-55 to +150 °C

Dissipations at:

25°C

150 mw

65°C

110 mw

100°C

75 mw

150°C

25 mw

ZENER REGULATOR

Zener Voltage

4.0 ± 1.0 volts

Zener Voltage Temperature Stability

0.03% per °C

Average Zener Current

25.0 ma.

Peak Zener Current (1.0 sec.)

85.0 ma.

Zener Impedance Z at 5.0 mAdc

10 ohms

Zener Impedance Z at 0.5 mAdc

100 ohms

RECTIFIER

Peak Inverse Voltage

3.0 volts

Continuous Inverse Voltage

3.0 volts

Average Rectified Current

125 ma.

Average Rectified Current (at 100°C)

80 ma.

Peak Rectified Current

300 ma.

Surge Current (for 1.0 sec.)

500 ma.

CHARACTERISTICS:100°C25°C

Maximum Inverse Current at -1.0 volts

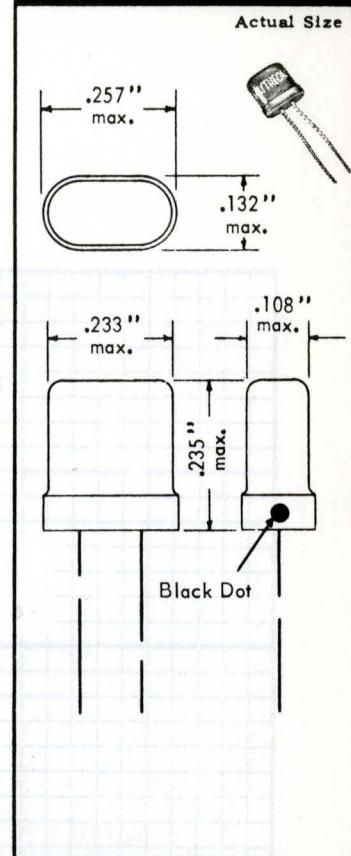
1.0

0.1 μa.

Maximum Forward Voltage at 100 ma.

1.0

1.0 volts



Tentative Data

RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS

TYPE 1N436

RAYTHEON

SILICON VOLTAGE REGULATOR DIODE

silicon voltage regulator diodes which will operate between characteristics at 5.11V and 7.0V. These diodes are also known as Zener diodes, and are used as part of feedback voltage regulators or as voltage reference diodes to keep rectified filament voltages from fluctuating off of set values. They are also used as part of circuitry to limit current flow through an element off of set values.

