



Excellence in Electronics

TYPE

1N437

The 1N437 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 sub-miniature sockets may be used by cutting the leads to a suitable length.

MECHANICAL DATA

- CASE:** Metal and Glass
- BASE:** 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:** Any

ELECTRICAL DATA

RATINGS - 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

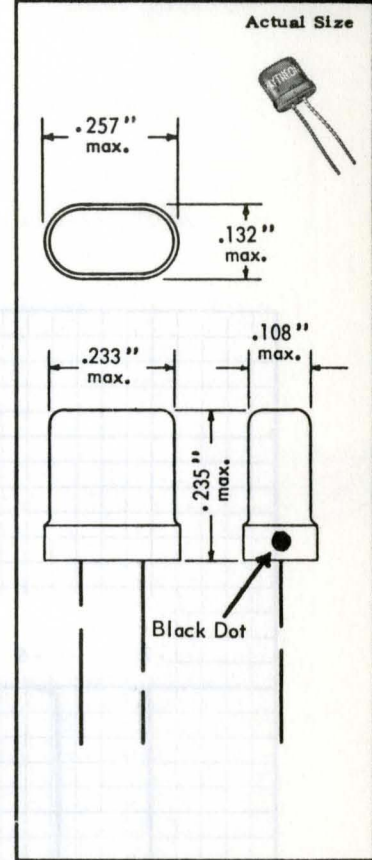
Zener Voltage	6.0 ± 1.0 volts
Zener Voltage Temperature Stability	0.05 % per °C
Average Zener Current	20.0 ma.
Peak Zener Current (1.0 sec.)	70 ma.
Zener Impedance Z at 5.0 mA	10.0 ohms
Zener Impedance Z at 0.5 mA	100.0 ohms

RECTIFIER

Peak Inverse Voltage	5.0 volts
Continuous Inverse Voltage	5.0 volts
Average Rectified Current	125 ma
Average Rectified Current (100°C)	80 ma
Peak Rectified Current	300 ma
Surge Current (for 1.0 sec.)	500 ma

CHARACTERISTICS:

	100°C	25°C
Maximum Inverse Current at -1.0 volt	1.0	0.1 µa.
Maximum Forward Voltage at 100 ma.	1.0	1.0 volt



Tentative Data

RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS



SILICON VOLTAGE REGULATOR DIODE

The 1N437 is a mechanically sealed silicon voltage regulator diode designed for use as a voltage regulator to maintain a constant output voltage. The diode is mounted on a heat sink which is attached to a heat sink. The diode is connected in a circuit with a load resistor and a series resistor. The diode is connected in a circuit with a load resistor and a series resistor. The diode is connected in a circuit with a load resistor and a series resistor.

MECHANICAL DATA

Case: Metal and Glass
 Lead: 0.020" (0.51mm) diameter
 Spacing: 0.080" (2.03mm) center-to-center
 (Mounting hole is adjacent to cathode lead)

