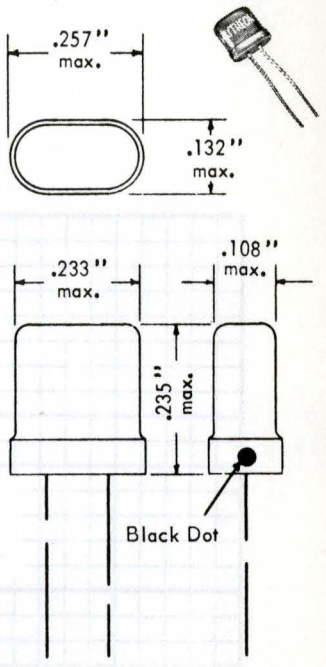
Excellence in Electronics

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.

Actual Size



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

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	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°C	25°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

SILICON VOLTAGE REGULATOR DIODE