

**RAYTHEON**

## TECHNICAL INFORMATION

SILICON  
JUNCTION DIODE*Excellence in Electronics*

The 1N432 is a hermetically sealed silicon junction diode designed for general purpose applications and providing extreme stability, wide temperature range, high back resistance (100 megohms or more), and high ratio of back to forward resistance. 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.

## MECHANICAL DATA

CASE: Metal and GlassBASE: None (0.016" tinned dumet wire. Length: 1.0" min.  
Spacing: 0.080" center-to-center)TERMINAL CONNECTIONS: (Black Dot is adjacent to Cathode Terminal)MOUNTING POSITION: Any

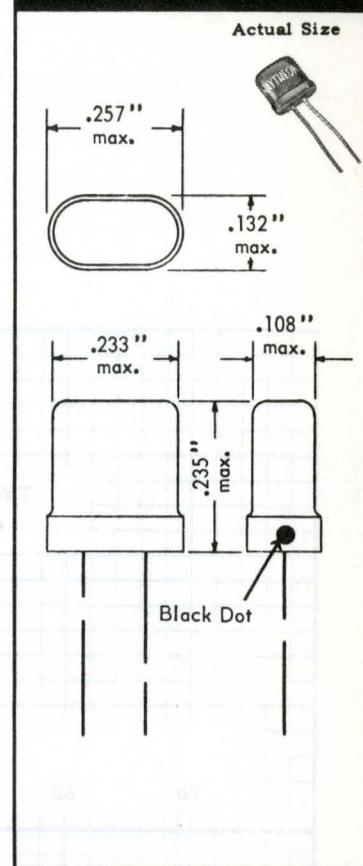
## ELECTRICAL DATA

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

Peak Inverse Voltage	40	volts
Continuous Inverse Voltage	35	volts
Average Rectified Current	60	ma.
Average Rectified Current (100°C)	40	ma.
Peak Rectified Current	120	ma.
Surge Current (for 1 sec.)	400	ma.
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.

CHARACTERISTICS:

	100°C	25°C
Maximum Inverse Current at -10 volts	0.05	0.005 $\mu$ a.
Minimum Forward Current at +1.0 volt		10.0 ma.



Tentative Data

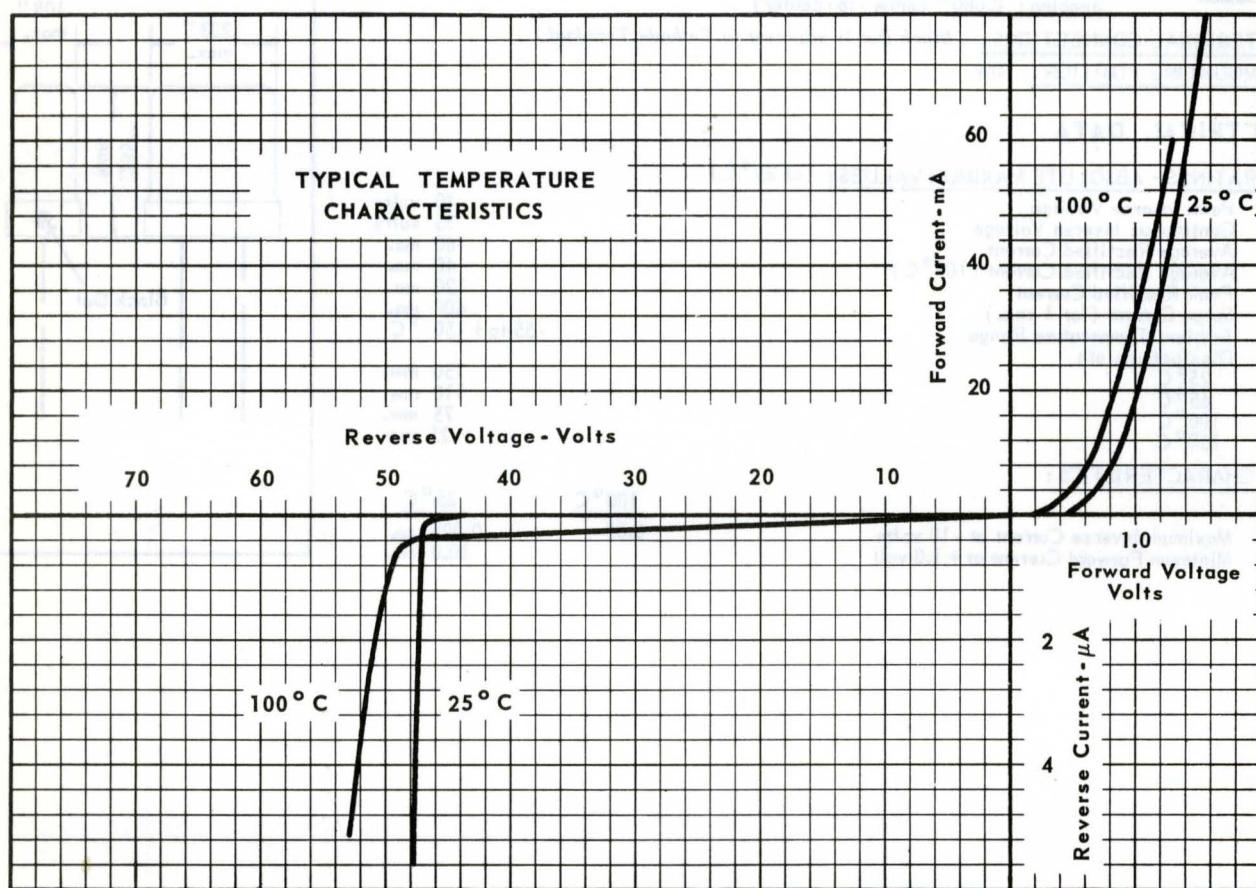
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RECEIVING AND CATHODE RAY TUBE OPERATIONS

## SILICON JUNCTION DIODE

This silicon junction diode has a low reverse leakage current, suitable for use at room temperature. It is particularly well suited for light space applications where reliability is important, but will also withstand high temperatures without loss of characteristics. It is designed to meet the requirements of the U.S. Air Force specification MIL-R-18744A. The maximum operating temperature is 100°C. Maximum reverse voltage is 50 Volts. Maximum forward current is 60 mA. Reverse current is 1.0 microampere at 50°C. Reverse current is 1.0 microampere at 100°C.

## MECHANICAL DATA



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