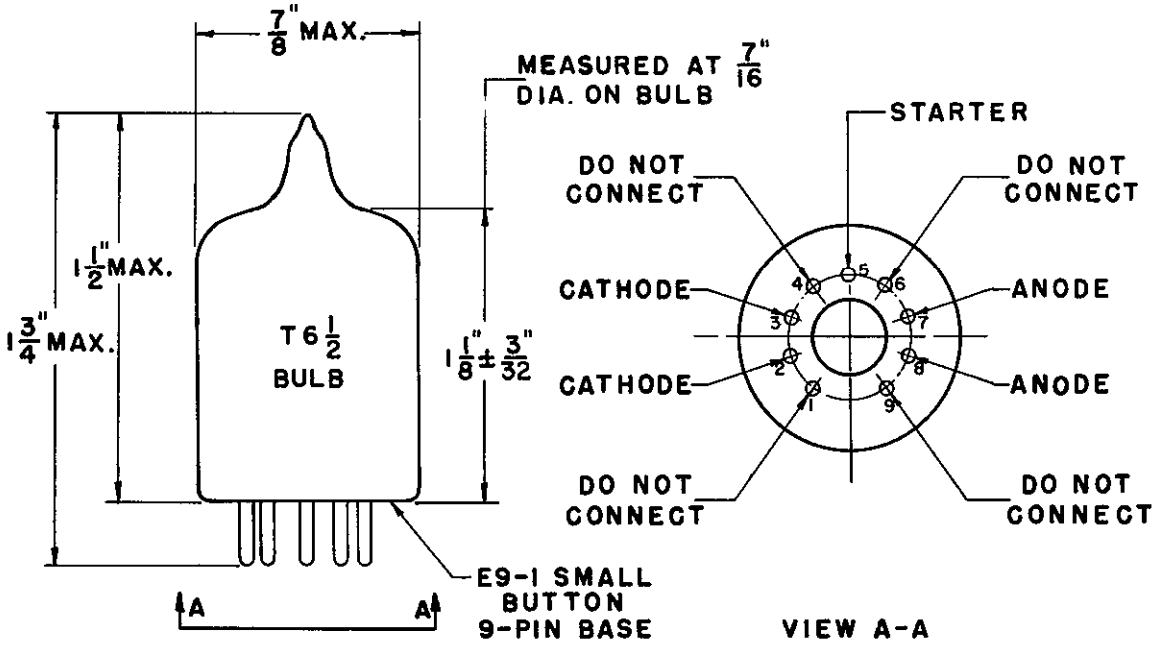
ADVANCE ELECTRON TUBE DATA SHEET

WESTERN ELECTRIC 432A ELECTRON TUBE



DESCRIPTION

The 432A is a three-electrode inert-gas filled cold cathode tube designed primarily for use as a voltage reference tube. This tube has exceptionally stable characteristics.

CHARACTERISTICS

Cathode Current	4 to 8 milliamperes
Anode Voltage Drop	100 volts
Regulation, Max. (4 to 6 Milliamperes D-C)	0.5 volt

FILE: COLD CATHODE SECTION
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RATINGS, Absolute Values

Cathode Current	
Maximum	8 milliamperes
Minimum	4 milliamperes
Maximum Inverse Starter or Anode Current	0.0 milliampere
Starter Current (Minimum)	0.2 milliampere
Ambient Temperature Limits	-55 to + 60 centigrade

ELECTRICAL DATA

	Min.	Bogey	Max.	
Anode Breakdown Voltage	---	---	160	volts
Anode Voltage Drop at 6 Milliamperes (D-C)[1]	99	100	103	volts
Starter Breakdown Voltage	---	---	200	volts
Starter Voltage Drop	---	115	---	volts
Required Transfer Current at 110 Anode Volts	200	---	---	microamperes
Regulation (4 to 6 Milliamperes, D-C)	---	---	0.5	volt
Temperature Sensitivity of Anode Voltage Drop				
Anode Current, 4 Milliamperes (D-C)	---	-0.01	---	volt/c
Anode Current, 8 Milliamperes (D-C)	---	-0.02	---	volt/c
Fluctuation[2]	---	---	0.1	volt
Stability[3]	---	---	0.3	volt

MECHANICAL DATA

Mounting Position	Any
Net Weight, Approximate	0.3 ounce
Bulb	T 6-1/2
Base	Small Button 9-pin

Note 1: These values are for new tubes. The stability characteristic should be considered during tube life.

Note 2: The anode voltage drop variation during a short period of time (one to ten minutes), with the tube operating at one value of current and temperature within its ratings, will not exceed the above stated maximum value.

Note 3: The drift of anode voltage drop over a period of 1000 hours, with the tube operating at one value of current and temperature within its ratings, will not exceed the above stated maximum value.

A development of Bell Telephone Laboratories, the research laboratories of the American Telephone and Telegraph Company and the Western Electric Company.