



ELECTRONIC TUBE REFERENCE

4242A

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Directly heated or receiving triode documented by the manufacturer; available source material does not establish a narrower functional category strongly enough for reassignment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	10 V / 3.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	3000 Ω
TRANSCONDUCTANCE	0.004200000000000001 S
AMPLIFICATION FACTOR	12
MAXIMUM PLATE VOLTAGE	1250 V
MAXIMUM PLATE DISSIPATION	85 W
MAXIMUM CATHODE CURRENT	150 mA
<i>Explicit alternate/previous designation printed on 3B850A datasheet.</i>	

The 4242A is a triode described in the Standard Valves datasheet, using a directly heated filament cathode and published operating data.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Standard Valves

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1937 STANDARD VALVES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total emission	15 A	Published datasheet value
Grid-anode capacitance	13 pF	Published datasheet value
Anode-filament capacitance	4 pF	Published datasheet value
Grid-filament capacitance	65 pF	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency for above ratings	6 MHz	Published datasheet value
Maximum direct grid current	50 mA	Published datasheet value

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mutual conductance	4200 μ S	Published characteristic; normalized from mA/V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode capacity	13 pF	Published interelectrode capacitance
Maximum direct anode current	150 mA	Maximum safe operating rating



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Standard Valves

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1947 STANDARD VALVES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency at full rating	6 MHz	—

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