

ELECTRONIC TUBE REFERENCE

HD22

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS
CONSTRUCTION
DIODE-DIODE-TRIODE

Battery double-diode triode combining radio detection and related signal rectification with subsequent audio-frequency amplification, consolidating detector, control-voltage, and AF functions in one valve.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	18000 Ω
TRANSCONDUCTANCE	0.0015 S
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	150 V
Published characteristics promoted where reliably identified; additional source values retained below.	

SECTION2 Diode	
No fixed ratings recorded.	
Physical diode section added during approved section-structure reconciliation.	

SECTION3 Diode

No fixed ratings recorded.

Physical diode section added during approved section-structure reconciliation.

HD22: OSRAM combined double-diode triode. The complete approved OSRAM sheet was read for construction, characteristics, operating data, and application guidance.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Osram Valves

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

1937 OSRAM VALVES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	2 V	—
Heater/filament current	200 mA	—
Plate impedance	18000 ohm	—
Mutual conductance	1500 uS	—
Amplification factor	27	—
Application	Detector and automatic volume control	—
Separate triode and diode filament systems	Yes	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	150 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

193X Osram

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

193X OSRAM

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	2 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater current	200 mA	—
Mutual conductance	1500 μ S	—

TUBE TINKER

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and their source documents.

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