



ELECTRONIC TUBE REFERENCE

PD500

Triode - HV Shunt Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-voltage shunt-regulator triode for stabilizing the extra-high-tension supply in color television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9D	BASE PINS	9
NOMINAL HEATER	7.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	25000 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM CATHODE CURRENT	1.6 mA
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

High-voltage shunt-regulator triode for color-television extra-high-tension stabilization.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving and Amplifying Valves

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

1967 MULLARD RECEIVING AND AMPLIFYING VALVES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	25 kV	ShuntStabilizer
Plate current	1.5 mA	ShuntStabilizer

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage absolute	27.5 kV	Absolute
Maximum plate dissipation intermittent	40 W	Intermittent10Percent
Maximum negative grid voltage	150 V	—
Maximum heater-cathode voltage cathode positive	400 V dc + 250 V ac	—
Maximum heater-cathode voltage cathode negative	250 V	—
Maximum anode voltage under circuit failure	45 kV	CircuitFailure
Maximum X-ray hazard note	1	ShieldingRequired

1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	8 V	Nominal
HeaterCurrentNominal	300 mA	Nominal
Maximum Plate Voltage	25000 V	—
Maximum Plate Dissipation	30 W	—
Maximum Cathode Current	1.5 mA	—



SOURCE DATA APPENDIX

1972 Philips Receiving Tubes

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

1972 PHILIPS RECEIVING TUBES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	7.3 V	Published nominal value
Heater current	300 mA	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	30 W	Published maximum rating
Maximum anode voltage	25 kV	Design-centre rating
Absolute maximum anode voltage	27.5 kV	Published absolute maximum



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1973 Mazda Valves Binder 2

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

1973 MAZDA VALVES BINDER 2

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	7.3 V	Published nominal value
Heater current	300 mA	Published nominal value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	30 W	Published maximum rating
Maximum anode voltage	25 kV	Design-centre rating
Maximum anode dissipation	30 W	Published



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Triode

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage V_a	25 kV	—
Anode current I_3 max	1.6 mA	—
Heater current I_t	300 mA	—
Heater voltage V_ϕ	7.3 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current change from 0.1 to [1]	1.5 mA	—
current change from 0.1 to [2]	10 V	—
Grid voltage at I3	1.5 mA	—
at I3	0.1 mA	—
Negative grid voltage max	130 V	—
Grid resistor max	5 MΩ	—
cathode negative max	250 V	—
1) If due to a circuit failure the anode current becomes	0 mA	—
should never exceed	45 kV	—
this voltage may rise to	440 V	—
Vs/k is	2.5 μA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage max	25 kV	—
) max	27.5 kV	—
Anode current max	1.6 mA	—
Anode dissipation max	30 W	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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