



ELECTRONIC TUBE REFERENCE

ABC1

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

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Four-volt double-diode triode for receiver detector, automatic-volume-control, and audio-frequency amplification service. Two diodes handle detection and control-voltage production while the triode amplifies the recovered audio signal.

GENERAL CHARACTERISTICS

BASE DESIGNATION	P30	BASE PINS	8
NOMINAL HEATER	4 V / 650 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM CATHODE CURRENT	0.8 mA
MAXIMUM HEATER-CATHODE VOLTAGE	50 V

Diode section of combined dual-diode triode.

SECTION2 Diode

MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM CATHODE CURRENT	0.8 mA
MAXIMUM HEATER-CATHODE VOLTAGE	50 V

Diode section of combined dual-diode triode.

SECTION3 Triode	
PLATE RESISTANCE	13500 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Triode section; typical values promoted from the published operating data.</i>	

Indirectly heated double-diode triode for detector, AVC, and audio-frequency amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	250 V	—
Typical plate current	4 mA	—
Control-grid bias	-7 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2000 μ S	—
Amplification factor	27	—
Plate resistance	13500 ohm	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Diode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	4 V	Published nominal value
Heater or filament current	650 mA	Published nominal value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2000 μS	Published operating characteristic

1953 RFT RUNDFUNK TECHNIK

Section 3 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	4 V	Published nominal value
Heater or filament current	650 mA	Published nominal value
Transconductance	2000 μS	Published operating characteristic


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	4 V	—
HeaterOrFilamentCurrent	1 A	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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195X Tunsgam

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

195X TUNSGRAM

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum signal voltage	200 V	Per diode, peak
Maximum diode current	0.8 mA	Per anode

195X TUNSGRAM

Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum signal voltage	200 V	Per diode, peak
Maximum diode current	0.8 mA	Per anode

195X TUNSGRAM

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	250 V	—
Typical plate current	4 mA	—
Typical grid voltage	-7 V	—
Maximum no-current anode voltage	550 V	—
Maximum heater-cathode voltage	50 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum	420 V	PerDiode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode current maximum	0.8 mA	PerDiode
Peak diode current maximum	50 mA	PerDiode

1999 PHILIPS 0-D

Section 3 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	4 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-cathode voltage maximum	50 V	—