



ELECTRONIC TUBE REFERENCE

6350

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

High-perveance medium-mu twin triode designed for high-speed digital-computer, on-off control, and cathode-follower service, with substantial pulse-voltage and peak-current capability for rapid switching circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9CZ	BASE PINS	9
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	6.3 V / 600 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9CZ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 2K	B	K – Cathode	CONNECTED
PIN3 – 2G1	B	G1 – Control Grid	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – 1K	A	K – Cathode	CONNECTED
PIN8 – 1G1	A	G1 – Control Grid	CONNECTED
PIN9 – HCT	–	HCT – Heater Center Tap	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	3900 Ω
TRANSCONDUCTANCE	0.0046 S
AMPLIFICATION FACTOR	18
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM CATHODE CURRENT	45 mA
<i>Representative electrical row for repeated identical physical sections.</i>	

SECTION2 Triode	
PLATE RESISTANCE	3900 Ω
TRANSCONDUCTANCE	0.0046 S
AMPLIFICATION FACTOR	18
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM CATHODE CURRENT	45 mA
<i>Second identical physical triode section; added to align rows with SectionCount.</i>	

High-perveance medium-mu twin triode for high-speed digital-computer and cathode-follower service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Triode

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Computer_On0ffControl text	—



SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak positive plate voltage	1000 V	Pulse
Peak cathode current	300 mA	Pulse

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Characteristic plate voltage	150 V	EachSection



1960 RCA Industrial and Communications Types

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1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	12.6 V	—
Heater Current	300 mA	—
Transconductance	4600 μ S	EachUnit

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Pulse Plate Voltage	1000 V	CathodeFollower



SOURCE DATA APPENDIX

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage Series	12.6 V	—
Heater Current Series	300 mA	—
Heater Voltage Parallel	6.3 V	—
Heater Current Parallel	600 mA	—
Transconductance	4600 μ S	EachUnit

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterCathodeVoltageMaximum	200 V	—
PeakPositivePlateVoltage	1000 V	—
Negative Grid Voltage Maximum	75 V	—
PositiveGridVoltageMaximum	3.5 V	—
PeakNegativeGridVoltage	400 V	—
PeakPositiveGridVoltage	13 V	—
AveragePositiveGridCurrent	5 mA	—
PeakPositiveGridCurrent	100 mA	—
Average Cathode Current	25 mA	—
Peak Cathode Current	300 mA	—
PlateDissipationPerPlate	3.5 W	—
PlateDissipationBothPlates	7 W	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 3 of 7

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

1971 RCA HB3 BINDER 3 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	600 mA	Nominal
Heater voltage series	12.6 V	Series
Heater current series	300 mA	Series
Heater voltage parallel	6.3 V	Parallel
Heater current parallel	600 mA	Parallel
Maximum plate voltage	330 V	Promoted published value
Maximum plate dissipation	4 W	Promoted published value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cathode current	45 mA	Promoted published value
Grid to grid x.042 max. μm	42 mA	—
Grid Voltage	-5 V	Characteristics, Class A~ Amplifier (Each Unit):
Cathode voltage and plate current of	-11 V	Characteristics, Class A~ Amplifier (Each Unit):
of 200 volts and plate current of 1 ma -12 volts	-12 V	Characteristics, Class A~ Amplifier (Each Unit):
DC PLATE VOLTAGE	330 V	Maximum Ratings, Absolute Values:
PEAK POSITIVE-PULSE PLATE VOLTAGE`	1000 V	Maximum Ratings, Absolute Values:
PEAK NEGATIVE-PULSE GRID VOLTAGE, E'	440 V	Maximum Ratings, Absolute Values:
PEAK POSITIVE-PULSE GRID VOLTAGE`	14 V	Maximum Ratings, Absolute Values:
DC GRID CURRENT	5.5 mA	Maximum Ratings, Absolute Values:
PEAK GRID CURRENT'	110 mA	Maximum Ratings, Absolute Values:
DC CATHODE CURRENT	45 mA	Maximum Ratings, Absolute Values:
PEAK CATHODE CURRENT*	350 mA	Maximum Ratings, Absolute Values:
Either plate	4 W	Maximum Ratings, Absolute Values:
Both plates (Both units operating)	7 W	Maximum Ratings, Absolute Values:
Heater negative with respect to cathode	220 V	Maximum Ratings, Absolute Values:
Heater positive with respect to cathode	220 V	Maximum Ratings, Absolute Values:
For cathode-bias operation	0.5 megohm	Maximum Ratings, Absolute Values:
Heater Current	325 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	12.6 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	100 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Under the following conditions: heater volts =	7.5 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
one minute on and four minutes off, heater	180 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	3900 ohm	Promoted published value
Transconductance	4600 uS	Promoted published value
Amplification factor	18	Promoted published value
Plate Current (1)	16 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Plate Current (2)	1 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Transconductance	6000 uS	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	-5 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	-15 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
x ote n: With plate volts =	-15 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	200 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
current of	1 A	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	300 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

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