ELECTRONIC TUBE REFERENCE

6082

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Low-mu twin power triode intended for regulator and DC-amplifier service under shock and vibration, with high-current sections and low plate resistance.

General characteristics

BASE DESIGNATION	8BD	**BASE PINS**	8
NOMINAL HEATER	26.5 V / 600 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

8BD - Terminal pinout

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

Section ratings

SECTION1 Triode	
PLATE RESISTANCE	280 Ω
TRANSCONDUCTANCE	0.007 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	13 W
MAXIMUM CATHODE CURRENT	125 mA
Published ratings and characteristics promoted where applicable; additional source-table values retained in TUBE_SECTION_PARAMETER.	

SECTION2 Triode	
PLATE RESISTANCE	280 Ω
TRANSCONDUCTANCE	0.007 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	13 W
MAXIMUM CATHODE CURRENT	125 mA
Identical second physical section; duplicated from representative section per physical-section-row policy.	

> The RCA 6082 is a low-mu twin power triode for regulator service under shock and vibration.

SOURCE OPERATING CONDITIONS

SOURCE PDF

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum plate voltage	**250 V**	Published handbook rating
Plate voltage	**135 V**	ClassA
Cathode resistor	**125 ohm**	DCAmplifier
DC plate voltage	**135 V**	DCAmplifier
Published load/output value	**7000**	DCAmplifier

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Transconductance	**280 µS**	Published handbook characteristic
Heater/filament voltage	**26.5 V**	Published heater/filament rating
Heater/filament current	**600 mA**	Published heater/filament rating
Published characteristic value	**280**	DCAmplifier

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater Voltage	**26.5 V**	—
Heater Current	**600 mA**	—

SOURCE OPERATING CONDITIONS

SOURCE PDF

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

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Voltage — published value 1	**26.5 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Voltage — published value 2	**10 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Current	**600 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid to Plate	**8**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Grid of Unit No.l to•Grid of Unit No.2	**0.5**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
to Plate of Unit No.2	**2**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate—Supply Voltage	**135 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode–Bias Resistor	**250 ohm**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Resistance	**280 ohm**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Transconductance	**7000**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current	**125 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 1 –Grid of – published value 1	**1**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 1 –Grid of – published value 2	**5**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 2 –Plate of – published value 1	**2**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 2 –Plate of – published value 2	**6**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 3 –Cathode of – published value 1	**3**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 3 –Cathode of – published value 2	**7**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Unit No.2	**8**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Pin 4 –Grid of	**4**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
PLATE CURRENT	**125 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
For cathode–bias operation	**1 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For fixed–bias operation°	**0.1 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater Current — published value 1	**1 A**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater Current — published value 2	**550 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater Current — published value 3	**650 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current (Each Unit) — published value 1	**1 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current (Each Unit) — published value 2	**2 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current (Each Unit) — published value 3	**100 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Plate Current (Each Unit) — published value 4	**150 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Mote 2: Witty plate–suDDIY voltage of 135 volts, and cathode–Dias resistor — published value 1	**2 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Mote 2: Witty plate–suDDIY voltage of 135 volts, and cathode–Dias resistor — published value 2	**135 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Note 3: With Dlate–supply voltage of 135 volts, grid resistor of 1 meg ohm — published value 1	**3 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Note 3: With Dlate–supply voltage of 135 volts, grid resistor of 1 meg ohm — published value 2	**135 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Note 3: With Dlate–supply voltage of 135 volts, grid resistor of 1 meg ohm — published value 3	**1 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
resistance to Dr Ov fide a minimum drop of 15 volts tlC et the normal oper—	**15 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
in parallel: Heater voltage of 26.5 volts, plate voltage	**26.5 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
supply of 135 volts, do grid voltage of —7 volts, plate — published value 1	**135 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
supply of 135 volts, do grid voltage of —7 volts, plate — published value 2	**7 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
load resistance of 2000 ohms, and vibrational accelera—	**2000 ohm**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE VOLTAGE	**250 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
PLATE DISSIPATION	**13 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater negative with respect to cathode	**300 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
Heater positive with respect to cathode	**300 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
cathode—bias operation*	**0.1 mA**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.
RMS Output Voltage	**200 V**	Published datasheet value; multiple values on a source row represent separate source-table conditions or limits.

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