



ELECTRONIC TUBE REFERENCE

6H6

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-DIODE

Twin diode with separate cathodes designed for detector, automatic-volume-control rectifier, and low-drain power-rectifier applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	70	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE VOLTAGE	420 V
MAXIMUM CATHODE CURRENT	8 mA
PEAK INVERSE VOLTAGE	420 V
NOMINAL OUTPUT CURRENT	8 mA
PEAK FORWARD CURRENT	48 mA
FORWARD VOLTAGE DROP	11 V
MAXIMUM HEATER-CATHODE VOLTAGE	330 V
Each identical diode; rectifier/detector service.	

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

The 6H6 contains two separate diode rectifier sections and was designed for detector, automatic-volume-control rectifier, and low-drain power-rectifier applications.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1935 RCA All Metal Radio Tubes

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

1935 RCA ALL METAL RADIO TUBES

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage per plate RMS	100 V	—
DC output current	2 mA	—
Plate-to-plate capacitance	0.02 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC voltage per plate	100 V	DetectorDiodeService
Maximum DC output current	4 mA	DetectorDiodeService



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 · Diode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	300 mA	Published nominal value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage per plate	100 V	RMS
DC output current	4 mA	Published



SOURCE OPERATING CONDITIONS

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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

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	300 mA	Nominal
Maximum Plate Voltage	420 V	—



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 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating
Tube voltage drop	11 V	At 16 mA DC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current per plate	8 mA	HalfWave
Peak inverse voltage	420 V	HalfWave
RMS supply voltage per plate	150 V	HalfWave
Peak current per plate	48 mA	HalfWave



SOURCE DATA APPENDIX

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Diode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-cathode capacitance	3 pF	—
Plate-to-plate capacitance	0.1 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC plate voltage RMS	150 V	EachDiode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	11 V	At15mADCPerPlate


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate Voltage Per Plate RMS	165 V	RectifierService


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	420 V	—
DC output current per plate	8 mA	HalfWave
Peak plate current per plate	48 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate #1 to Plate #2 – published value 1	1 mA	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #1 to Plate #2 – published value 2	2 mA	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #1 to Plate #2 – published value 3	0.1 mA	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #1 to Plate #2 – published value 4	0.1 mA	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Peak Inverse Voltage	420 V	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Peak Plate Current per Plate	48 mA	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
D-C Heater-Cathode Potential	330 V	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate (RMS) – published value 1	117 V	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate (RMS) – published value 2	150 V	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
D-C Output Current per Plate	8 mA	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
D-C Output Current – published value 1	8 mA	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
D-C Output Current – published value 2	8 mA	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage	6.3 V	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current	300 mA	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #1 to Cathode #1 – published value 1	1 pF	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #1 to Cathode #1 – published value 2	1 pF	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #1 to Cathode #1 – published value 3	3 pF	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #1 to Cathode #1 – published value 4	3 pF	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #2 to Cathode #2 – published value 1	2	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #2 to Cathode #2 – published value 2	2	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #2 to Cathode #2 – published value 3	3.4	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate #2 to Cathode #2 – published value 4	4	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
((6H6, Shell – published value 1	6	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
((6H6, Shell – published value 2	4	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
((6H6, Shell – published value 3	2	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Pin 1 i6H6~T/G, Internal 4 © – published value 1	1	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Pin 1 i6H6~T/G, Internal 4 © – published value 2	4	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 1 i6H6~T/G, Internal 4 © 5 – published value 3		Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Pin 1 i6H6~T/G, Internal 4 © 1 – published value 4		Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
ll shield	7	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Pin 2 -Heater – published value 1	2	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Pin 2 -Heater – published value 2	8	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Pin 2 -Heater – published value 3	1	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Pin 3 -Plate #2 – published value 1	3	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Pin 3 -Plate #2 – published value 2	2	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Impedance per Plate • – published value 1	15 ohm	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Impedance per Plate • – published value 2	40 ohm	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate (RMS) – published value 1	117 V	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Plate (RMS) – published value 2	117 V	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Impedance per Plate – published value 1	30 ohm	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
Impedance per Plate – published value 2	15 ohm	Published datasheet value; multiple values on one source row represent separate limits or operating conditions.



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