



ELECTRONIC TUBE REFERENCE

6H6GT

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-DIODE

Glass-tubular indirectly heated double-diode detector valve intended for radio signal detection and related rectifier functions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	70	BASE PINS	7
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	
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
<i>Published maximum ratings and characteristic values promoted where applicable; additional table values retained in TUBE_SECTION_PARAMETER.</i>	

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

Indirectly heated double-diode detector valve.



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 · 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 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	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current per plate	8 mA	HalfWave
Peak plate current per plate	48 mA	—
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.
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.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 1 i6H6~T/G, Internal 4 © 4 – published value 2		Published datasheet value; multiple values on one source row represent separate limits or operating conditions.
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.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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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