

ELECTRONIC TUBE REFERENCE

6AU4GTA

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Improved 6AU4-family television damper diode for horizontal-deflection energy recovery, combining approximately 4.5 kV inverse voltage with high peak-current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4CG	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.8 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

4CG - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IC	–	–	IC
PIN2 – IC	–	–	IC
PIN3 – K	A	K – Cathode	CONNECTED
PIN5 – P	A	P – Plate (Anode)	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – H	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	6.5 W
PEAK INVERSE VOLTAGE	4500 V
NOMINAL OUTPUT CURRENT	210 mA
PEAK FORWARD CURRENT	1.3 A
FORWARD VOLTAGE DROP	25 V
MAXIMUM HEATER-CATHODE VOLTAGE	4500 V
<i>Promoted from published ratings/characteristics; identical repeated sections compressed where applicable.</i>	

Glass-octal half-wave vacuum rectifier used as a damper tube in horizontal-deflection circuits of color and wide-angle television receivers.



SOURCE OPERATING CONDITIONS

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Rectifier

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Television damping diode	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	1.8 A	—
Heater-cathode voltage, heater negative, DC	900 V	—
Heater-cathode voltage, heater negative, total DC and peak	4500 V	—
Peak plate current	1200 mA	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to plate and heater	11.5 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	1.8 A	—
Forward Voltage Drop	17 V	PlateCurrent=200mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakInverseVoltageMaximum	4500 V	DamperService
PeakPlateCurrentMaximum	1200 mA	DamperService
Average Plate Current Maximum	325 mA	DamperService
Plate Dissipation Maximum	6 W	DamperService
HeaterCathodeVoltageMaximum	4500 V	Pulse



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	1.8 A	Published table
Average tube voltage drop	25 V	At350mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse plate voltage	4500 V	DamperService
Maximum DC plate current	275 mA	DamperService
Maximum steady-state peak plate current	1100 mA	DamperService


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage nominal	6.3 V	—
Heater current	1.8 A	—
Peak inverse plate voltage	4500 V	DamperService
Peak plate current	1300 mA	DamperService
DC plate current	210 mA	DamperService
Plate dissipation	6.5 W	DamperService
Peak heater-cathode voltage heater negative	4500 V	DamperService
Peak heater-cathode voltage heater positive	300 V	DamperService


SOURCE DATA APPENDIX

1975 RCA RC30

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

1975 RCA RC30
Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc)	6.3 V	Published in approved 6AU4GTA target entry; Section1
Heater Current	1.8 A	Published in approved 6AU4GTA target entry; Section1
Peak Inverse Plate Voltage#	4500 V	Published in approved 6AU4GTA target entry; Section1
Peak Plate Current	1300 mA	Published in approved 6AU4GTA target entry; Section1
Average Plate Current	210 mA	Published in approved 6AU4GTA target entry; Section1
Plate Dissipation	6.5 W	Published in approved 6AU4GTA target entry; Section1
Peak value +300	-4500 V	Published in approved 6AU4GTA target entry; Section1
Average value -(-100	-900 V	Published in approved 6AU4GTA target entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Heater and Cathode	8.5 pF	Published in approved 6AU4GTA target entry; Section1
Cathode to Heater and Plate	11.5 pF	Published in approved 6AU4GTA target entry; Section1
Heater to Cathode	4 pF	Published in approved 6AU4GTA target entry; Section1

TUBE TINKER

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and their source documents.

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