

ELECTRONIC TUBE REFERENCE

6AX4GTB

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Glass-octal high-voltage half-wave rectifier for color and monochrome television horizontal-deflection damping, with higher peak-inverse capability than earlier 6AX4 variants.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4CG	BASE PINS	5
NOMINAL HEATER	6.3 V / 1.2 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	5.3 W
PEAK INVERSE VOLTAGE	5000 V
NOMINAL OUTPUT CURRENT	165 mA
PEAK FORWARD CURRENT	1 A
FORWARD VOLTAGE DROP	32 V
MAXIMUM HEATER-CATHODE VOLTAGE	5000 V
WARM-UP TIME	11 s
<i>Damper-diode PIV/current data are preserved as parameters; rectifier-specific promoted fields are not used because the source explicitly says power-rectifier operation is not recommended.</i>	

Glass-octal half-wave damper rectifier for color and monochrome television horizontal deflection. It is a high-voltage half-wave vacuum rectifier intended for CRT horizontal-deflection damper service.



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	1.2 A	—



SOURCE OPERATING CONDITIONS

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 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	1.2 A	—
Forward voltage drop	32 V	At specified plate current

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	5000 V	—
Peak plate current	1000 mA	—
DC plate current	165 mA	—
Plate dissipation	5.3 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater negative to cathode total DC plus peak	5000 V	—
Heater positive to cathode total DC plus peak	300 V	—


SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage maximum	5000 V	TVDamper
Plate dissipation maximum	6 W	TVDamper
Steady-state peak plate current maximum	1200 mA	TVDamper
DC output current maximum	200 mA	TVDamper
Application	Horizontal-deflection damping diode in television receivers Section1	

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	25 V	SpecifiedPlateCurrent


SOURCE DATA APPENDIX

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	5000 V	—
Steady State Peak Plate Current	1 A	—
DC Output Current	165 mA	—
HeaterCathodeVoltageHeaterPositiveDC	100 V	—
HeaterCathodeVoltageHeaterPositiveTotalDCPeak	300 V	—
HeaterCathodeVoltageHeaterNegativeDC	900 V	—
HeaterCathodeVoltageHeaterNegativeTotalDCPeak	5000 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	32 V	PlateCurrent=250mA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode To Plate And Heater Capacitance	8.5 pF	—
Plate To Cathode And Heater Capacitance	5 pF	—
Heater To Cathode Capacitance	40 pF	—



SOURCE DATA APPENDIX

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	1.2 A	—
Peak inverse plate voltage	5000 V	DamperService
Peak plate current	1000 mA	DamperService
DC plate current	165 mA	DamperService
Plate dissipation	5.3 W	DamperService

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop at 250 mA	32 V	DamperService



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-to-plate and heater capacitance	8.5 pF	—
Plate-to-cathode and heater capacitance	5 pF	—
Heater-to-cathode capacitance	4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage	5000 V	DamperService
Peak plate current	1000 mA	DamperService
Average plate current	165 mA	DamperService

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate dissipation	5.3 W	DamperService
Tube voltage drop	32 V	DamperService