

ELECTRONIC TUBE REFERENCE

6W4GT

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

High-vacuum television damper diode designed for high repetitive pulse voltage and current in horizontal-deflection circuits.

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	3.5 W
MAXIMUM CATHODE CURRENT	125 mA
PEAK INVERSE VOLTAGE	5000 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	750 mA
FORWARD VOLTAGE DROP	21 V
MAXIMUM HEATER-CATHODE VOLTAGE	5000 V
<i>Damper-service maximum ratings and average voltage drop mapped from the printed shared table.</i>	

Television damper diode designed for high pulse voltage and current.

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	3850 V	—
Nominal DC output current	125 mA	—
Maximum peak forward current	750 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward voltage drop	21 V	—
Forward-voltage-drop test current	250 mA	—

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	1.2 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakInverseVoltageMaximum	5000 V	HorizontalDeflection
PeakPlateCurrentMaximum	800 mA	HorizontalDeflection
Average Plate Current Maximum	125 mA	HorizontalDeflection
HeaterCathodeVoltageMaximum	5000 V	Pulse



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage	3650 V	DamperService
Peak plate current	750 mA	DamperService
DC plate current	125 mA	DamperService
Plate dissipation	3.5 W	DamperService
Heater-cathode total DC and peak voltage	2300 V	HeaterNegative

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	21 V	250mAConduction



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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to Plate and Heater Capacitance	13 pF	—
Plate to Cathode and Heater Capacitance	6 pF	—
Heater to Cathode Capacitance	1 pF	—



SOURCE DATA APPENDIX

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	1.2 A	—
Peak inverse plate voltage	5000 V	DamperService
Peak plate current	750 mA	DamperService
DC plate current	125 mA	DamperService
Peak heater-cathode voltage heater negative	-5000 V	—
Peak heater-cathode voltage heater positive	300 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Television damper service	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-cathode-and-heater capacitance	6 pF	—

TUBE TINKER

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