

ELECTRONIC TUBE REFERENCE

25W4GT

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

Series-heater half-wave damper rectifier for television horizontal-deflection service, designed for high pulse current and inverse voltage in sweep-energy recovery.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4CG	BASE PINS	5
NOMINAL HEATER	25 V / 300 mA	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
PEAK INVERSE VOLTAGE	3850 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	750 mA
FORWARD VOLTAGE DROP	21 V
MAXIMUM HEATER-CATHODE VOLTAGE	500 V
WARM-UP TIME	11 s
<i>Damper-service maximum ratings and average voltage drop mapped from the printed shared table.</i>	

The 25W4GT is an indirectly heated half-wave rectifier designed for damping-diode service in direct-drive television sweep circuits, with high inverse-voltage and pulse-current capability.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	25 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating
Tube voltage drop	21 V	At 350 mA DC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	125 mA	TVDamperService
Peak inverse voltage	3850 V	TVDamperService
Peak current	750 mA	TVDamperService



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	25 V	Nominal
Heater current	300 mA	Nominal

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC plate current	125 mA	DamperService
Maximum steady-state peak current	750 mA	DamperService
Heater-cathode voltage, heater negative, DC	500 V	DamperService
Heater-cathode voltage, heater positive, total DC and peak	200 V	DamperService

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop at 250 mA	21 V	DamperService

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater to cathode	1 pF	Direct interelectrode capacitance
Plate to cathode and heater	6 pF	Direct interelectrode capacitance
Cathode to plate and heater	17 pF	Direct interelectrode capacitance



SOURCE DATA APPENDIX

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	25 V	—
Heater Current	300 mA	—
Voltage Drop	32 V	PlateCurrent=250mA
Heater-to-Cathode Capacitance	7 pF	—
Plate-to-Cathode-and-Heater Capacitance	6 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-to-Plate-and-Heater Capacitance	13 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	3850 V	DamperService
Peak Plate Current	750 mA	—
DC Plate Current	125 mA	—
Plate Dissipation	4.8 W	—
Maximum Heater-Cathode Voltage Cathode Positive	2300 V	TotalDCPlusPeak


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage	3850 V	HorizontalDeflection
Plate dissipation	3.5 W	WholeTube
Steady-state peak current	750 mA	WholeTube
DC plate current	125 mA	WholeTube
Tube voltage drop at 250 mA	21 V	Characteristic

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-to-cathode capacitance	11 pF	WholeTube
Plate-to-cathode-and-heater capacitance	6 pF	WholeTube
Cathode-to-plate-and-heater capacitance	17 pF	WholeTube



SOURCE OPERATING CONDITIONS

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	17 pF	—
Plate to Cathode and Heater Capacitance	6 pF	—

TUBE TINKER

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