

ELECTRONIC TUBE REFERENCE

6DA4A

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Indirectly heated damper diode designed to withstand high-voltage cathode-to-heater and cathode-to-plate pulses in direct-drive television circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4CG	BASE PINS	8
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	8 W
PEAK INVERSE VOLTAGE	5000 V
NOMINAL OUTPUT CURRENT	185 mA
PEAK FORWARD CURRENT	900 mA
FORWARD VOLTAGE DROP	30 V
MAXIMUM HEATER-CATHODE VOLTAGE	5000 V
<i>Damper service; 30 V tube drop published at 340 mA conducting plate current.</i>	

The 6DA4A is a single indirectly heated diode intended for television horizontal-frequency damper service. It is designed to withstand high-voltage pulses between the cathode and both heater and plate in direct-drive circuits.

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
Maximum heater-cathode voltage, heater negative DC	1000 V	—
Maximum heater-cathode voltage, heater negative total DC and peak	5000 V	—
Maximum heater-cathode voltage, heater positive DC	100 V	—
Maximum heater-cathode voltage, heater positive total DC and peak	300 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop at 340 mA	30 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-to-cathode capacitance	3 pF	—
Cathode-to-plate-and-heater capacitance	9 pF	—
Plate-to-cathode-and-heater capacitance	7 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

