



ELECTRONIC TUBE REFERENCE

PCF812

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

BEAMPOWER-TRIODE

Multi-section television valve intended for video-output and associated signal-processing service, combining a small-signal section with a power output section in one envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9A	BASE PINS	9
NOMINAL HEATER	10.4 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	18
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

SECTION2 Beam Power	
TRANSCONDUCTANCE	0.008 S
AMPLIFICATION FACTOR	44
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	1 W
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

Triode beam-tetrode optimized for television sync separation and line-scan oscillator service. The supplied English-language Mazda/Thorn-AEI datasheet was used for the technical and descriptive extraction.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1973 Mazda Valves Binder 2

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

1973 MAZDA VALVES BINDER 2

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current I_h	3 A	—
Heater Voltage V_h	104 V	—
Maximum Anode Dissipation $p_{a(max)} 20$	30 W	—
Maximum Screen Grid Dissipation $p_{82} (max) 1$	1 W	—
Maximum Anode Voltage $V_{a(max)} 250$	250 V	—
Maximum Screen Grid Voltage $V_{g2} (max) 250$	250 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to Earth $c_{g1_E} 7.8 80$	91 pF	—
Anode Tetrode to Earth $c_{aq - E} 24 27$	3.8 pF	—
Grid 1 to Anode Tetrode $c_{g1_aq} 0 033 0 047 0$	75 pF	—
Grid Triode to Earth $c_{gt_E} 22 245$	325 pF	—
Anode Triode to Earth Cat-E $21 23$	30 pF	—
Grid Triode to Anode Triode $c_{gt-at} 23 24$	27 pF	—
Grid 1 to Anode Triode $c_{g1_at} 00065 0016$	3 pF	—
Grid Triode to Anode Tetrode $C_{gt-aq} 0.0073 0 012 0$	15 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Tetrode to Anode Triode caq-at 0 035 0 043 0	46 pF	—
Grid 1 to Grid Triode c\$1-gt 0 002 00055	94 pF	—
\$ Total capacity including	89 A	—
Anode Voltage Va 200	170 V	—
Screen Grid Voltage V\$2	170 V	—
,— Control Grid Voltage V\$1 -7.7 -2	0 V	—
Anode Current Ia 10	10 mA	—
Screen Grid Current I\$2 —	25 mA	—
Mutual Conductance gm 34	8 mA	—
■H. • _	8 w	—
40 80 120 160 200 240	2 W	—
40 V'a a	200 V	—

TUBE TINKER

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and their source documents.

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