



ELECTRONIC TUBE REFERENCE

6LD12

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL DATA

4 SECTIONS

CONSTRUCTION

DIODE-DIODE-DIODE-
TRIODE

Triple-diode high-mu triode combining several detector or discriminator functions with voltage amplification. Three diode sections provide multiple rectification paths while the triode supplies substantial subsequent gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM CATHODE CURRENT	1 mA
PEAK INVERSE VOLTAGE	350 V
NOMINAL OUTPUT CURRENT	1 mA
Published electrical limits and characteristics promoted from the approved source.	

SECTION2 Diode	
MAXIMUM CATHODE CURRENT	10 mA
PEAK INVERSE VOLTAGE	350 V
NOMINAL OUTPUT CURRENT	10 mA
Published electrical limits and characteristics promoted from the approved source.	

SECTION3 Diode	
MAXIMUM CATHODE CURRENT	10 mA
PEAK INVERSE VOLTAGE	350 V
NOMINAL OUTPUT CURRENT	10 mA
<i>Published electrical limits and characteristics promoted from the approved source.</i>	

SECTION4 Triode	
PLATE RESISTANCE	48000 Ω
TRANSCONDUCTANCE	0.00145 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	5 mA
<i>Published electrical limits and characteristics promoted from the approved source.</i>	

Triple-diode triode for AM/FM detection and audio-frequency voltage amplification.

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 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	450 mA	Nominal
Maximum Cathode Current	1 mA	—
Maximum Peak Inverse Voltage	350 V	—
Rectified Output Current	1 mA	—

1973 MAZDA VALVES BINDER 2

Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	450 mA	Nominal
Maximum Cathode Current	10 mA	—
Maximum Peak Inverse Voltage	350 V	—
Rectified Output Current	10 mA	—

1973 MAZDA VALVES BINDER 2

Section 3 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	450 mA	Nominal
Maximum Cathode Current	10 mA	—
Maximum Peak Inverse Voltage	350 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Rectified Output Current	10 mA	—

1973 MAZDA VALVES BINDER 2

Section 4 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	450 mA	Nominal
Maximum Plate Voltage	300 V	—
Maximum Plate Dissipation	1 W	—
Maximum Cathode Current	5 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1450 μ S	Typical
Amplification Factor	70	Typical
Plate Resistance	48000 ohm	Typical