



ELECTRONIC TUBE REFERENCE

EBC90

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

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Double-diode high-mu triode combining detector functions with voltage amplification. Two independent diodes provide low-current signal rectification while the triode supplies substantial subsequent receiver gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 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
<i>Published electrical limits and characteristics promoted from the approved source.</i>	

SECTION2 Diode	
MAXIMUM CATHODE CURRENT	1 mA
<i>Published electrical limits and characteristics promoted from the approved source.</i>	

SECTION3 Triode	
PLATE RESISTANCE	58000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Published electrical limits and characteristics promoted from the approved source.</i>	

High-gain audio triode combined with twin detector diodes.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode current maximum	1 mA	—

1963 MULLARD

Section 3 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	V _a =100V
Grid voltage	-1 V	V _a =100V
Plate current	0.8 mA	V _a =100V
Amplification factor	70	V _a =100V
Plate resistance	54000 ohm	V _a =100V
Plate voltage	250 V	V _a =250V
Grid voltage	-3 V	V _a =250V
Plate current	1 mA	V _a =250V
Amplification factor	70	V _a =250V
Plate resistance	58000 ohm	V _a =250V

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	300 mA	Nominal
Maximum Cathode Current	1 mA	—

1973 MAZDA VALVES BINDER 2

Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	300 mA	Nominal
Maximum Cathode Current	1 mA	—

1973 MAZDA VALVES BINDER 2

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	300 mA	Nominal
Maximum Plate Voltage	300 V	—
Maximum Cathode Current	10 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1200 μ S	Typical
Amplification Factor	70	Typical
Plate Resistance	58000 ohm	Typical