



ELECTRONIC TUBE REFERENCE

EB91

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-DIODE

Indirectly heated dual diode designed for detector, phase-comparator, and rectifier service, with useful high-frequency operation to roughly 700 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	MINIATURE	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE DISSIPATION	0.25 W
MAXIMUM CATHODE CURRENT	9 mA
PEAK INVERSE VOLTAGE	420 V
NOMINAL OUTPUT CURRENT	9 mA
PEAK FORWARD CURRENT	54 mA
MAXIMUM HEATER-CATHODE VOLTAGE	330 V
Two identical diode systems; representative row. Peak inverse voltage is 420 V; total anode dissipation is 0.5 W for both systems.	

SECTION2 Diode	
MAXIMUM CATHODE CURRENT	9 mA
Second physical diode section added in approved section-structure reconciliation.	

Indirectly heated dual diode intended for detector and phase-comparator service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Current	9 mA	EachSection
Peak Anode Current	54 mA	EachSection



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Philips Receiving Tubes for Television

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

1951 PHILIPS RECEIVING TUBES FOR TELEVISION

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS Supply Voltage	150 V	Each section used as rectifier
Reservoir Capacitance	8 uF	Each section
Minimum Supply Resistance	300 ohm	Each section



SOURCE OPERATING CONDITIONS

195X Tesla

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

195X TESLA

Section 1 · Diode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitances	Published	See source sheet for electrode-specific capacitance values



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Ferranti Technical Handbook

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

1961 FERRANTI TECHNICAL HANDBOOK

Section 1 · Diode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum resonant frequency	700 MHz	—

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	HF detector / half-wave rectifier	—



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
PIV maximum	420 V	—
Average diode current maximum	9 mA	—
Peak diode current maximum	54 mA	—
Peak heater-cathode voltage maximum	330 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Detector / rectifier	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode interelectrode capacitance max	0.025 pF	—
Diode-cathode capacitance	3 pF	—



SOURCE DATA APPENDIX

1963 Philips Electron Tubes Handbook V1a

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Electrical reference	See EAA91	SameFamilyCharacteristics
Application	Dual diode with separate cathodes	Section1



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving and Amplifying Valves

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

1967 MULLARD RECEIVING AND AMPLIFYING VALVES

Section 1 · Diode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-Cathode Capacitance	3 pF	EachSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Current	9 mA	EachSection
Maximum Peak Anode Current	54 mA	EachSection
Maximum Peak Heater-Cathode Voltage	330 V	EachSection
Peak Inverse Voltage	420 V	—
Nominal Output Current	9 mA	—
Peak Forward Current	54 mA	—
Interelectrode Capacitance Data Published	1	SourceTablePresent



1968 Mazda Belvu

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

1968 MAZDA BELVU
Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage..... eersrereeeninmnenensçenss VÊ	6.3 V	—
Heater current..... sirererencenencnnnnnnn IË	300 mA	—
Peak inverse voltage d'anode..... VAiCE	420 V	—
Courant d'AnOd@E rineereeserencnsenençrenenmnnnnnn Ü e	9 mA	—
Courant de crête d'anod@ _..... ureriemennnnmnesn IACI	54 mA	—
filament positif par rapport à la cathode Vf	150 V	—
filament négatif par rapport à la cathode -Vfk	330 V	—
Résistance d'anode ceerreneecemeensnnenns RA	300 Ω	—
en TTed	9 mA	—
filament négatif par rapport à la cathode	330 V	—
(1) La composante continue neffdmt pas dépasser	200 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitance anode/ cathode, filament Ca/kf	2.5 pF	InterelectrodeCapacitance
Capacitance cathode/ anode, filament Ck/af	3.4 pF	InterelectrodeCapacitance
Capacitance entre anodes n Ca'/a"	0.068 pF	InterelectrodeCapacitance



SOURCE OPERATING CONDITIONS

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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	9 mA	—
Maximum Peak Inverse Voltage	500 V	—
Rectified Output Current	9 mA	—
PeakForwardCurrent	50 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Diode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Electrical data reference	EAA91	MaintenanceType

TUBE TINKER

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

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