



ELECTRONIC TUBE REFERENCE

EBC41

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

CONSOLIDATED TECHNICAL DATA

3 SECTIONS
CONSTRUCTION
DIODE-DIODE-TRIODE

Double-diode high-mu triode for receiver detection, automatic-volume-control generation, and audio voltage amplification. Paired diodes handle detector and control duties while the triode supplies subsequent gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	RIMLOCK	BASE PINS	–
NOMINAL HEATER	6.3 V / 230 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode	
PEAK INVERSE VOLTAGE	350 V
NOMINAL OUTPUT CURRENT	0.8 mA
PEAK FORWARD CURRENT	5 mA
Promoted from clearly identified published ratings/characteristics; additional operating points, capacitances, detector data, microwave data, and special-quality limits are retained in TUBE_SECTION_PARAMETER.	

SECTION2 Diode	
No fixed ratings recorded.	
Promoted from clearly identified published ratings/characteristics; additional operating points, capacitances, detector data, microwave data, and special-quality limits are retained in TUBE_SECTION_PARAMETER.	

SECTION3 Triode	
PLATE RESISTANCE	58000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	5 mA
<i>Promoted from clearly identified published ratings/characteristics; additional operating points, capacitances, detector data, microwave data, and special-quality limits are retained in TUBE_SECTION_PARAMETER.</i>	

Dual-diode triode for detection and low-frequency voltage amplification.

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	225 mA	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7

Section 1 · Diode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Signal detection	—

1958 BRIMAR RADIO VALVE NO 7

Section 3 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	AF amplifier	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

Section 1 · Diode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode capacitance	0.8 pF	Diode1

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 2 · Diode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode capacitance	0.7 pF	Diode2

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	AudioAmplifier
Control-grid voltage	-3 V	AudioAmplifier
Plate current	1 mA	AudioAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1200 μ S	Section1
Amplification factor	70	Section1
Plate resistance	58000 Ω	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid capacitance	2.5 pF	Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	1.7 pF	Section1
Grid-to-plate capacitance	1.5 pF	Section1



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving Tubes for Maintenance

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

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Diode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ca d-gt <	0.007 pF	Published in approved EBC41.pdf target datasheet; Section2
Cal f d -gt <	0.03 pF	Published in approved EBC41.pdf target datasheet; Section2
Ca d - a t <	0.01 pF	Published in approved EBC41.pdf target datasheet; Section2
e j! -k	2.75 pF	Published in approved EBC41.pdf target datasheet; Section2
Ca - k	1.5 pF	Published in approved EBC41.pdf target datasheet; Section2
Ca - g	1.3 pF	Published in approved EBC41.pdf target datasheet; Section2
Cg -h <	0.05 pF	Published in approved EBC41.pdf target datasheet; Section2
Ca I d -k	0.8 pF	Published in approved EBC41.pdf target datasheet; Section2
<	0.3 pF	Published in approved EBC41.pdf target datasheet; Section2
Ca d - h <	0.1 pF	Published in approved EBC41.pdf target datasheet; Section2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
<	0.05 pF	Published in approved EBC41.pdf target datasheet; Section2

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 3 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ca d-gt <	0.007 pF	Published in approved EBC41.pdf target datasheet; Section1
Cal f d -gt <	0.03 pF	Published in approved EBC41.pdf target datasheet; Section1
Ca d - a t <	0.01 pF	Published in approved EBC41.pdf target datasheet; Section1
e j! -k	2.75 pF	Published in approved EBC41.pdf target datasheet; Section1
Ca - k	1.5 pF	Published in approved EBC41.pdf target datasheet; Section1
Ca - g	1.3 pF	Published in approved EBC41.pdf target datasheet; Section1
Cg -h <	0.05 pF	Published in approved EBC41.pdf target datasheet; Section1
Ca I d -k	0.8 pF	Published in approved EBC41.pdf target datasheet; Section1
<	0.3 pF	Published in approved EBC41.pdf target datasheet; Section1
Ca d - h <	0.1 pF	Published in approved EBC41.pdf target datasheet; Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
<	0.05 pF	Published in approved EBC41.pdf target datasheet; Section1



SOURCE DATA APPENDIX

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

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Detector text	—

1968 MAZDA BELVU

Section 3 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	AFVoltageAmplifier text	—



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum diode current	0.8 mA	—
Maximum diode inverse peak voltage	350 V	—
Maximum diode peak current	5 mA	—

1999 PHILIPS E-Z

Section 3 · Triode

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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	230 mA	—
Typical plate voltage	250 V	—
Transconductance	1200 μ S	—
Amplification factor	70	—
Plate resistance	58000 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	—
Maximum plate dissipation	0.5 W	—