



ELECTRONIC TUBE REFERENCE

EAC91

Voltage - Triode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-TRIODE

Diode-triode for VHF/UHF frequency-changing service, combining a mixer/detector diode with a triode oscillator. Manufacturer data supports frequency conversion to roughly 300 MHz and oscillation considerably higher.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
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 PLATE VOLTAGE	50 V
MAXIMUM CATHODE CURRENT	5 mA
<i>Published ratings and characteristics promoted from the supplied Brimar source.</i>	

SECTION2 Triode	
PLATE RESISTANCE	12500 Ω
TRANSCONDUCTANCE	0.0025 S
AMPLIFICATION FACTOR	31
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Published ratings and characteristics promoted from the supplied Brimar source.</i>	

Miniature oscillator triode combined with a single diode for UHF frequency-changer 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 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	200 V	TriodeSection
Plate Current	7.5 mA	TriodeSection
Grid Voltage	-2.8 V	TriodeSection
Maximum Operating Frequency	300 MHz	FrequencyChanger
Oscillation Limit Frequency	600 MHz	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2800 μ S	TriodeSection
Amplification Factor	36	TriodeSection
Plate Resistance	12800 ohm	TriodeSection



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Mullard Receiving Tubes

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

1958 MULLARD RECEIVING TUBES

Section 1 · Diode

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

1958 MULLARD RECEIVING TUBES

Section 2 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	200 V	—
Plate Current	5.5 mA	—



SOURCE DATA APPENDIX

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

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Mixer/detector diode	—

1963 MULLARD

Section 2 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode plate voltage	200 V	—
Triode plate current	7.5 mA	—
Triode grid voltage	-2.8 V	—
Triode transconductance	2.8 mA/V	—
Triode amplification factor	36	—
Triode plate resistance	12800 ohm	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Oscillator / UHF frequency changer	—



SOURCE DATA APPENDIX

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Chauffage: indirect par C.A, ou C.C, Ve =	6.3 V	Published datasheet value
Cg =	1.7 pF	Published datasheet value
Ca =	1.2 pF	Published datasheet value
Cag =	1.7 pF	Published datasheet value
Caa =	0.4 pF	Published datasheet value
Cxr_xp =	0.4 pF	Published datasheet value
max	300 V	Published datasheet value
max	250 V	Published datasheet value
= max	10 mA	Published datasheet value
max	50 V	Published datasheet value
max,	20 kQ	Published datasheet value
danb max	350 V	Published datasheet value
I3 max	5 mA	Published datasheet value
max	50 mA	Published datasheet value
Fréquence limite en oscillatrice	600 MHz	Published datasheet value

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