



ELECTRONIC TUBE REFERENCE

EBL31

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-PENTODE

Combination valve incorporating a power-output pentode with diode or triode sections for audio-frequency amplification, detection, or driver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

PEAK FORWARD CURRENT	0.8 mA
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Published ratings and characteristics promoted from the supplied Brimar source.

SECTION2 Diode

No fixed ratings recorded.

Second physical diode section; added to align pentode plus twin-diode structure with SectionCount=3.

SECTION3 Pentode	
PLATE RESISTANCE	55000 Ω
TRANSCONDUCTANCE	0.0095 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM SCREEN DISSIPATION	1.5 W
<i>Published ratings and characteristics promoted from the supplied Brimar source.</i>	

High-sensitivity output pentode combined with twin diodes for AC mains equipment.



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	1.2 A	—

1951 MULLARD VALVE AND SERVICE MANUAL

Section 3 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA
Plate Current	36 mA	ClassA



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	1.2 A	—

Section 3 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA
Plate Current	36 mA	ClassA



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 3 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Screen voltage	250 V	ClassA
Plate current	36 mA	ClassA
Cathode resistor	146 ohm	ClassA
Grid voltage	-6 V	ClassA
Screen current	5 mA	ClassA
Transconductance	9.5 mA/V	ClassA
Plate resistance	50000 ohm	ClassA
Load resistance	7000 ohm	ClassA
Power output	4.3 W	ClassA
Distortion	10 %	ClassA
Input voltage RMS	3.6 V	ClassA

TUBE TINKER

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

