



ELECTRONIC TUBE REFERENCE

EBC3

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

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Double-diode triode for receiver detection, automatic-volume-control generation, and audio-frequency voltage amplification. Two diodes provide signal and control rectification while the triode supplies subsequent audio gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Published target-row operating and characteristic values reviewed.

SECTION2 Diode

MAXIMUM PLATE VOLTAGE	200 V
NOMINAL OUTPUT CURRENT	0.8 mA

Published target-row operating and characteristic values reviewed.

SECTION3 Triode	
PLATE RESISTANCE	15000 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Published target-row operating and characteristic values reviewed.</i>	

EBC3 is listed in the supplied valve table as a duodiode-triode. Published operating and characteristic values were transcribed from its target row.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Published European table row
Plate current	5 mA	Published European table row
Control-grid bias	5.5 V	Published European table row

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	15000 ohm	Published European table row
Transconductance	2000 μ S	Published European table row
Amplification factor	30	Published European table row
Heater/filament voltage	6.3 V	Published European table row
Heater/filament current	200 mA	Published European table row

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.4 pF	Published European table row

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 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum diode current	0.8 mA	—
Maximum diode peak voltage	200 V	—

1999 PHILIPS E-Z

Section 3 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	200 mA	—
Typical plate voltage	250 V	—
Transconductance	2000 μ S	—
Amplification factor	30	—
Plate resistance	15000 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	—
Maximum plate dissipation	1.5 W	—