



ELECTRONIC TUBE REFERENCE

KBC1

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

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Battery double-diode triode combining receiver detection and control-signal rectification with low-frequency voltage amplification, providing several radio signal-processing functions in one economical valve.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE VOLTAGE	125 V
MAXIMUM CATHODE CURRENT	0.2 mA
<i>Published target-row operating and characteristic values reviewed.</i>	

SECTION2 Diode	
MAXIMUM PLATE VOLTAGE	125 V
NOMINAL OUTPUT CURRENT	0.2 mA
<i>Published target-row operating and characteristic values reviewed.</i>	

SECTION3 Triode	
PLATE RESISTANCE	16000 Ω
TRANSCONDUCTANCE	0.001 S
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	0.6 W
MAXIMUM CATHODE CURRENT	6 mA
<i>Published target-row operating and characteristic values reviewed.</i>	

KBC1 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	135 V	Published table operating point
Plate current	2.5 mA	Published table operating point
Control-grid bias	4 V	Published table operating point
Alternate plate voltage	90 V	TriodeSection OperatingPoint2
Alternate plate current	1 mA	TriodeSection OperatingPoint2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	16000 ohm	Published table characteristic
Amplification factor	16	Published table characteristic
Heater/filament voltage	2 V	Published heater/filament rating
Heater/filament current	100 mA	Published heater/filament rating



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 peak voltage	125 V	—
Maximum diode current	0.2 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode 1 capacitance	2.7 pF	—
Diode 2 capacitance	2.5 pF	—
Inter-diode capacitance maximum	0.5 pF	—

1999 PHILIPS E-Z

Section 3 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode plate voltage	135 V	—
Triode plate current	2.5 mA	—
Triode grid voltage	-4.5 V	—
Triode amplification factor	16	—
Triode transconductance	1000 μ S	—
Triode plate resistance	16000 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum triode plate voltage	150 V	—
Maximum triode plate dissipation	0.6 W	—
Maximum cathode current	6 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode plate capacitance	6.5 pF	—
Triode grid capacitance	3 pF	—
Triode plate-grid capacitance	3.1 pF	—