

ELECTRONIC TUBE REFERENCE

EY88

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

High-current television booster diode for horizontal line-time-base circuits, designed for substantial recovery current and high repetitive inverse voltage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9CB	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.55 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9CB - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IC	–	–	IC
PIN2 – IC	–	–	IC
PIN3 – IC	–	–	IC
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – IC	–	–	IC
PIN7 – IC	–	–	IC
PIN8 – IC	–	–	IC
PIN9 – P	A	P – Plate (Anode)	CONNECTED
CAP1 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	5 W
PEAK INVERSE VOLTAGE	7500 V
NOMINAL OUTPUT CURRENT	220 mA
PEAK FORWARD CURRENT	550 mA
MAXIMUM HEATER-CATHODE VOLTAGE	6600 V
<i>Published section ratings and characteristics promoted where applicable.</i>	

Efficiency diode for television line-deflection recovery circuits. Indirectly heated Mazda/Belvu receiving tube; descriptive text translated to English from the French source.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tesla

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

195X TESLA

Section 1 · Rectifier

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	300 mA	Published nominal value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum	7500 V	DamperDiode
Peak anode current maximum	55 mA	DamperDiode
Average anode current maximum	22 mA	DamperDiode
Application	Booster/damper diode in television horizontal circuits Section1	



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 · Rectifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode capacitance	8.6 pF	—
Cathode-to-heater capacitance	2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum booster voltage	550 V	—
Maximum DC anode current	220 mA	—
Maximum peak anode current	550 mA	—
Maximum cathode-positive anode-cathode pulse voltage	6000 V	Pulse
Maximum heater-cathode pulse voltage	6600 V	Pulse



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 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
e ce mnene vf	6.3 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacité d@ S0ItÎ® vrreeceerersenanancenencennennestsntsnnsns Cs	8.6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Courant filament	1.55 A	—
Capacité filament/ Cathod@ eerrenenesesenennnn cf/k	2 pF	—
Tension d'anode à COUrANnt NUÏ --..... rereraenencensascencennene Va bl	550 V	—
Tension continue d'anode _	250 V	—
Courant d'AnOd@E..... sccesssieriorenesmessennererennanceenserrrrsacs0ananese	220 mA	—
Courant d'anode de CrêtE reesssareenseencensesceneus	550 mA	—
Puissance dissipée sur l'AnodeE s Pa	5 W	—
Tension inversé de crête d'anode (1).....msserenesernee Va icr	6 kV	—
Tension de crête entre filament et cathode (1) Vfker	6.6 kV	—



TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1972 Philips Receiving Tubes

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

1972 PHILIPS RECEIVING TUBES

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	1.55 A	Published nominal value

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2300	Published value from supplied target entry
Load Resistance	10000 ohms	Published value from supplied target entry
Total Harmonic Distortion	10	Published value from supplied target entry
Peak Plate Current	550 mA	Published value from supplied target entry
Average Plate Current	220 mA	Published value from supplied target entry
Peak Heater-Cathode Voltage	6600 volts	Published value from supplied target entry
Heater Voltage (ac/dc)	12.6 volts	Published value from supplied target entry
Peak Inverse Plate Voltage	330 volts	Published value from supplied target entry
Peak Plate Current (Per Plate)	54 mA	Published value from supplied target entry
AC Plate Voltage per Plate (rms)	117 volts	Published value from supplied target entry
Min. Total Effective Plate-Supply Impedance per Plate	300 ohms	Published value from supplied target entry
Average Output Current per Plate	9 mA	Published value from supplied target entry
Heater Current	0.45 ampere	Published value from supplied target entry
Heater Warm-up Time (Average)	11 seconds	Published value from supplied target entry

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Max.-Sig. Power Output	1.1 watts	Published value from supplied target entry
Peak Inverse Plate Voltage* (Absolute maximum)	7600	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Heater-Cathode Voltage ±	30 volts	Published value from supplied target entry



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 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical datum	6.3 V	Heater voltage N 6.3 V
Published electrical datum	1.55 A	Heater current If 1.55 A

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal heater rating
Heater current	1.55 A	Nominal heater rating

TUBE TINKER

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and their source documents.

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