



ELECTRONIC TUBE REFERENCE

EY500A

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-current efficiency diode for television line-deflection energy recovery, combining approximately 5.6 kV inverse-voltage capability with 440 mA average and 800 mA peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9C18	BASE PINS	9
NOMINAL HEATER	6.3 V / 2.1 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM CATHODE CURRENT	440 mA
PEAK INVERSE VOLTAGE	5600 V
NOMINAL OUTPUT CURRENT	440 mA
PEAK FORWARD CURRENT	800 mA
MAXIMUM HEATER-CATHODE VOLTAGE	6300 V
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when 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](#)

1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC forward current maximum	440 mA	—
Peak forward current maximum	800 mA	—
Peak heater-to-cathode voltage	5.6 kV	Pulse
Heater-to-cathode voltage	6.3 kV	—
Absolute heater-to-cathode voltage	7 kV	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-cathode resistance at 440mA	45.5 Ohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-cathode capacitance	13.5 pF	—
Heater-to-cathode capacitance	37 pF	—

SOURCE OPERATING CONDITIONS

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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
Tension filament resesnenenenenMsenennnnnn vf	6.3 V	—
es nseneneenaennencene If	2.1 A	—
Capacité anode/ cathode Ca/k	13.5 pF	—
d'anode de	440 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacité cathode/filament ...s Ck/f	3.7 pF	—
Tension de crête inverse d'anode ... Vai cf	5.6 kV	—
Courant d'anode ...s ... Jla	440 mA	—
Courant de crête d'anode rsrerenenenn Tact 1	0 mA	—
Dissipation d'anode mansasrescenencuse PA	11 W	—
Tension de crête filament - cathode mesconeseu VfkCF	6.3 kV	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	2.1 A	Published nominal value



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 Ve 6.3 V
Published electrical datum	2.1 A	Heater current If 2.1 A

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal heater rating
Heater current	2.1 A	Nominal heater rating

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and their source documents.

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