



ELECTRONIC TUBE REFERENCE

PY88

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

High-current television efficiency diode for horizontal-deflection line-output stages, combining strong heater-cathode insulation with substantial recovery-current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9C12	BASE PINS	9
NOMINAL HEATER	30 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	220 mA
PEAK INVERSE VOLTAGE	7500 V
NOMINAL OUTPUT CURRENT	220 mA
PEAK FORWARD CURRENT	550 mA
MAXIMUM HEATER-CATHODE VOLTAGE	6600 V
<i>Published values promoted where clearly readable; identical repeated sections compressed when applicable.</i>	

Efficiency diode for television line-deflection recovery service. The supplied French datasheet was translated to English for descriptive output.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 La Radiotechnique

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

1953 LA RADIOTECHNIQUE

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Indirect (cathode isolee du filament)	300 mA	Rectifier
Alimentation du filament en serie vt	30 V	Rectifier
020n cuu nn p	255 mA/V	Rectifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	8.6 pF	Rectifier
Cathode-heater capacitance	2 pF	Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Rectifier
Plate current	220 mA	Rectifier
Courant de crete de l'anode	550 mA	Rectifier
Plate dissipation	5 W	Rectifier
Condensateur de recuperation	4 uF	Rectifier
la masse	220 V	Rectifier
cathode (K positive)	6 kV	Rectifier

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	30 V	Published nominal value or midpoint of published range
Heater current	300 mA	Published nominal value or midpoint of published range

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-cathode capacitance	8.6 pF	Published first-page value



SOURCE DATA APPENDIX

1961 Ferranti Technical Handbook

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

1961 FERRANTI TECHNICAL HANDBOOK

Section 1 · Rectifier

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Television booster / damper diode	—
Deflection-system application	110-degree CRT	—



SOURCE DATA APPENDIX

1963 Philips Electron Tubes Handbook V1

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1

Section 1 · Rectifier

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC anode voltage	550 V	—
Maximum anode voltage	250 V	—
Maximum average anode current	220 mA	—
Maximum peak anode current	550 mA	—
Maximum cathode-positive pulse voltage	7.5 kV	AbsoluteMaximum
Maximum heater-cathode pulse voltage	6.6 kV	—



SOURCE DATA APPENDIX

1967 Mullard Receiving and Amplifying Valves

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

1967 MULLARD RECEIVING AND AMPLIFYING VALVES

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Booster diode with a maximum peak inverse voltage of	6.6 a	Characteristic
110' deflection angle cathode ray tubes.	110	Characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
*P.I.V. max	6 V	LIMITING VALUE S
* ia(pk) max	550 mA	LIMITING VALUE S
* Vh - k (Pk) max. (cathode positive)	6.6 ma	LIMITING VALUE S



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension filament	30 V	—
Courant filament	300 mA	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	30 V	Nominal
HeaterCurrentNominal	300 mA	Nominal
Maximum Plate Dissipation	5 W	—
Maximum Cathode Current	220 mA	—
Maximum Peak Inverse Voltage	7500 V	—
PeakForwardCurrent	550 mA	—
MaximumNegativePeakAnodeVoltageDesignCentre	6000 V	Pulse



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage at zero current	550 V	—
Supply voltage	250 V	—
Peak plate current	550 mA	—
Average plate current	220 mA	—
Peak negative-pulse plate voltage	6000 V	LineTimeBase

ABSOLUTEMAXIMUM		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Absolute peak negative-pulse plate voltage	7500 V	LineTimeBase

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current, peak I_{ap} max	550 mA	Anode current, peak I_{ap} max. 550 mA
Anode voltage, negative peak — V_{ap} max	6000 V	Anode voltage, negative peak — V_{ap} max. 6000 V
Cathode to heater voltage, peak k_{ap} max	6600 V	Cathode to heater voltage, peak k_{ap} max. 6600 V
Heater current I_f	300 mA	Heater current I_f 300 mA
Anode to all C,	8.6 pF	Anode to all C, 8.6 pF
Cathode to heater T Cys	2.7 pF	Cathode to heater T Cys 2.7 pF
Supply voltage V_{bo} max	550 V	Supply voltage V_{bo} max. 550 V
Anode dissipation W, max	5 W	Anode dissipation W, max. 5 W
Anode current, average I, max	220 mA	Anode current, average I, max. 220 mA

TUBE TINKER

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

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