



ELECTRONIC TUBE REFERENCE

PY80

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Television booster diode for horizontal line-output circuits, providing approximately 4 kV inverse-voltage capability and 180 mA average current for sweep-energy recovery.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Noval	BASE PINS	9
NOMINAL HEATER	19 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	4000 V
NOMINAL OUTPUT CURRENT	180 mA
PEAK FORWARD CURRENT	400 mA
MAXIMUM HEATER-CATHODE VOLTAGE	650 V
<i>Mains/switch-diode ratings.</i>	

The Philips PY80 is a booster diode for television line-output circuits.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Philips Receiving Tubes for Television

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

1951 PHILIPS RECEIVING TUBES FOR TELEVISION

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	4000 V	PulseDuration<=18us
Peak Anode Current	400 mA	—
Average Anode Current	180 mA	—
Maximum Heater-Cathode Voltage	650 V	CathodePositive
Maximum Heater Voltage During Warmup	28.5 V	—

SOURCE OPERATING CONDITIONS

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak plate voltage in blocking phase	4 kV	—
DC plate current maximum	180 mA	—
Peak plate current maximum	400 mA	—
Duty ratio minimum	1:5.5	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulse duration maximum	18 μ s	—
Heater-cathode voltage maximum	650 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-cathode capacitance	5.5 pF	—

TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES
Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	4000 V	Pulse
Average Anode Current	180 mA	—
Peak Anode Current	400 mA	—

TUBE TINKER
ELECTRON TUBE DATABASE

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacités Ca	5.5 pF	Capacités Ca = 5,5 pF
max	450 V	+ max.450 V D.C.voltage
Capacités Cag	5.5 pF	Capacités Cag = 5,5 pF
Max. 100 Veff mains voltage+mux	500 V	2)Max. 100 Veff mains voltage+mux.500 V D.C.voltage
peak voltages above	3 kV	peak voltages above 3 kV, it must be isolated from
When using the FY 80 at peak voltages above	3 kV	When using the FY 80 at peak voltages above 3 kV,the
peak voltages above	3 kV	peak voltages above 3 kV, it must be isolated from
When using the PY 80 at peak voltages above	3 kV	When using the PY 80 at peak voltages above 3 kV,the