



ELECTRONIC TUBE REFERENCE

274B

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Western Electric directly heated full-wave rectifier, electrically equivalent to historical 274A except socket arrangement. Rated for approximately 1.5 kV peak inverse voltage, 225 mA DC output, and substantial peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	OCTAL	BASE PINS	8
NOMINAL HEATER	5 V / 2 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1500 V
NOMINAL OUTPUT CURRENT	225 mA
PEAK FORWARD CURRENT	675 mA
Ratings and characteristics promoted from the supplied Western Electric tabular source.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1500 V
NOMINAL OUTPUT CURRENT	225 mA
PEAK FORWARD CURRENT	675 mA
Second physical rectifier section; electrical properties populated from the documented identical section.	

Directly heated full-wave rectifier, electrically equivalent to historical 274A except socket. The supplied Emission Labs sheet was read for filament data, maximum ratings, representative operating points, gm/rp/mu, output conditions, capacitances, and rectifier filter conditions as applicable.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 Western Electric Tubes

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

1956 WESTERN ELECTRIC TUBES

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	5 V	—
HeaterOrFilamentCurrent	2 A	—

1956 WESTERN ELECTRIC TUBES

Section 2 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	5 V	—
HeaterOrFilamentCurrent	2 A	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Emission Labs

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

2026 EMISSION LABS

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	5 V	—
Filament current	2 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC input voltage	550 V RMS	CapacitorInputFilter;Above350VAC
Maximum DC output current	150 mA	CapacitorInputFilter;Above350VAC
Maximum first capacitor	4 uF	CapacitorInputFilter;Above350VAC
Maximum AC input voltage	660 V RMS	ChokeInputFilter
Maximum DC output current	200 mA	ChokeInputFilter
Typical DC output voltage	450 V	CapacitorInputFilter;OutputCurrent=140mA

2026 EMISSION LABS

Section 2 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	5 V	—
Filament voltage	5 V	—
Filament current	2 A	—
Filament current	2 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC input voltage	550 V RMS	CapacitorInputFilter;Above350VAC
Maximum AC input voltage	550 V RMS	CapacitorInputFilter;Above350VAC
Maximum DC output current	150 mA	CapacitorInputFilter;Above350VAC
Maximum DC output current	150 mA	CapacitorInputFilter;Above350VAC
Maximum first capacitor	4 uF	CapacitorInputFilter;Above350VAC
Maximum first capacitor	4 uF	CapacitorInputFilter;Above350VAC
Maximum AC input voltage	660 V RMS	ChokeInputFilter
Maximum AC input voltage	660 V RMS	ChokeInputFilter
Maximum DC output current	200 mA	ChokeInputFilter
Maximum DC output current	200 mA	ChokeInputFilter
Typical DC output voltage	450 V	CapacitorInputFilter;OutputCurrent=140mA
Typical DC output voltage	450 V	CapacitorInputFilter;OutputCurrent=140mA

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 200s

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

2026 WESTERN ELECTRIC 200S

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate Voltage Per Plate	660 V RMS	ChokeInputFilter
DC Output Current	225 mA	ChokeInputFilter
AC Plate Voltage Per Plate	450 V RMS	CapacitorInputFilter
DC Output Current	160 mA	CapacitorInputFilter
PeakTransientPlateCurrentPerPlate	2.5 A	—
MinimumInputChokeInductance	3 H	ChokeInputFilter
Minimum Plate Supply Impedance Per Plate	100 ohm	CapacitorInputFilter
DC Output Voltage At Filter Input	430 V	ChokeInputFilter
DC Output Voltage At Filter Input	475 V	CapacitorInputFilter
FilterInputCapacitance	4 uF	CapacitorInputFilter

2026 WESTERN ELECTRIC 200S

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate Voltage Per Plate	660 V RMS	ChokeInputFilter
AC Plate Voltage Per Plate	660 V RMS	ChokeInputFilter
AC Plate Voltage Per Plate	660 V RMS	ChokeInputFilter
DC Output Current	225 mA	ChokeInputFilter
DC Output Current	225 mA	ChokeInputFilter
DC Output Current	225 mA	ChokeInputFilter
AC Plate Voltage Per Plate	450 V RMS	CapacitorInputFilter
AC Plate Voltage Per Plate	450 V RMS	CapacitorInputFilter

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Output Current	160 mA	CapacitorInputFilter
DC Output Current	160 mA	CapacitorInputFilter
PeakTransientPlateCurrentPerPlate	2.5 A	—
PeakTransientPlateCurrentPerPlate	2.5 A	—
MinimumInputChokeInductance	3 H	ChokeInputFilter
MinimumInputChokeInductance	3 H	ChokeInputFilter
Minimum Plate Supply Impedance Per Plate	100 ohm	CapacitorInputFilter
Minimum Plate Supply Impedance Per Plate	100 ohm	CapacitorInputFilter
DC Output Voltage At Filter Input	430 V	ChokeInputFilter
DC Output Voltage At Filter Input	430 V	ChokeInputFilter
DC Output Voltage At Filter Input	475 V	CapacitorInputFilter
FilterInputCapacitance	4 uF	CapacitorInputFilter