



ELECTRONIC TUBE REFERENCE

314A

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Western Electric mercury-vapor full-wave transmitting rectifier using two rectifier paths. Its heavy filament supports substantial peak current with the low voltage drop characteristic of mercury-vapor rectification.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	300 V
PEAK FORWARD CURRENT	2.5 A
FORWARD VOLTAGE DROP	10 V
<i>Promoted fields audited from printed ratings/characteristics; remaining published values preserved as parameters.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	300 V
PEAK FORWARD CURRENT	2.5 A
FORWARD VOLTAGE DROP	10 V
<i>Second physical rectifier section; electrical properties populated from the documented identical section.</i>	

Mercury-vapor full-wave transmitting rectifier.



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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Mercury vapor	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak anode voltage	300 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 300s

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

2026 WESTERN ELECTRIC 300S

Section 1 · Rectifier

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	5 volt	Filament voltage 5.0 volts
Nominal filament current	5 amperes	Nominal filament current 5.0 amperes
supply. The voltage should be maintained to within	5 volt	supply. The voltage should be maintained to within 5% of its rated value (5.0 volts). Operation
used, this time is	30 seconds	used, this time is 30 seconds. If the tube is operated at ambient temperatures below 25° C., a

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Approximate anode-cathode potential drop	10 volts	Approximate anode-cathode potential drop 10 volts
ambient temperature range and plate current range, it may vary from	5 volts	ambient temperature range and plate current range, it may vary from 5 to 25 volts.
Table	1 volt	Table 1. The values listed are average values of the pulsating current and voltage for an

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak plate current	2.5 amperes	Maximum peak plate current 2.5 amperes
Maximum peak potential between electrodes	300 volts	Maximum peak potential between electrodes 300 volts
The maximum permissible peak plate current (	2.5 amperes	The maximum permissible peak plate current (2.5 amperes) is a limitation on the instantaneous
The maximum permissible peak potential between electrodes (	300 volts	The maximum permissible peak potential between electrodes (300 volts) is a limitation on the

2026 WESTERN ELECTRIC 300S

Section 2 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	5 volt	Filament voltage 5.0 volts
Nominal filament current	5 amperes	Nominal filament current 5.0 amperes
supply. The voltage should be maintained to within	5 volt	supply. The voltage should be maintained to within 5% of its rated value (5.0 volts). Operation
used, this time is	30 seconds	used, this time is 30 seconds. If the tube is operated at ambient temperatures below 25° C., a
Approximate anode-cathode potential drop	10 volts	Approximate anode-cathode potential drop 10 volts
ambient temperature range and plate current range, it may vary from	5 volts	ambient temperature range and plate current range, it may vary from 5 to 25 volts.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak plate current	2.5 amperes	Maximum peak plate current 2.5 amperes
Maximum peak potential between electrodes	300 volts	Maximum peak potential between electrodes 300 volts
The maximum permissible peak plate current (	2.5 amperes	The maximum permissible peak plate current (2.5 amperes) is a limitation on the instantaneous

TUBE TINKER

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