



ELECTRONIC TUBE REFERENCE

412A

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Miniature full-wave rectifier containing two identical rectifier sections. Rated for approximately 1.25 kV peak inverse voltage, 100 mA DC output, and 300 mA peak forward current from a 6.3 V heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	100 mA
PEAK FORWARD CURRENT	300 mA
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
<i>Promoted fields mapped from printed maximum-rating and characteristic headings; additional published values preserved in parameter rows. Representative row for repeated identical physical sections.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	100 mA
PEAK FORWARD CURRENT	300 mA
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
<i>Second physical rectifier section; electrical properties populated from corresponding identical section.</i>	

Miniature full-wave rectifier with two identical rectifier sections.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 400s

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

2026 WESTERN ELECTRIC 400S

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Plate Current per Plate	300 amperes	Peak Plate Current per Plate 300 milliamperes
Heater Voltage	6.3 volts	Heater Voltage 6.3 volts
D-C Output Current	90 amperes	D-C Output Current 90 milliamperes

2026 WESTERN ELECTRIC 400S

Section 2 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Plate Current per Plate	300 amperes	Peak Plate Current per Plate 300 milliamperes
Heater Voltage	6.3 volts	Heater Voltage 6.3 volts
D-C Output Current	90 amperes	D-C Output Current 90 milliamperes