



ELECTRONIC TUBE REFERENCE

RA100A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

High-vacuum half-wave rectifier diode for high-voltage AC conversion. Rated for approximately 40 kV peak inverse voltage, 300 mA average output, and 750 mA peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 6.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	40000 V
NOMINAL OUTPUT CURRENT	300 mA
PEAK FORWARD CURRENT	750 mA
<i>Published values promoted where clearly readable; identical repeated sections compressed when applicable.</i>	

High-vacuum rectifier diode intended for high-voltage alternating-current rectifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	5 V	Published nominal value or midpoint of published range
Heater current	6.5 A	Published nominal value or midpoint of published range

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tesla Tubes

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

1966 TESLA TUBES

Section 1 · Rectifier

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-anode capacitance	1.8 pF	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC input voltage per leg	14120 V	Single-phase full-wave; 2 tubes
DC output voltage	12720 V	Single-phase full-wave; 2 tubes
DC output current	200 mA	Single-phase full-wave; 2 tubes
AC input voltage	28240 V	Single-phase bridge; 4 tubes
DC output voltage	25440 V	Single-phase bridge; 4 tubes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	200 mA	Single-phase bridge; 4 tubes
AC input voltage	16320 V	Three-phase half-wave; 3 tubes
DC output voltage	19120 V	Three-phase half-wave; 3 tubes
DC output current	300 mA	Three-phase half-wave; 3 tubes
Maximum pulse anode voltage	12500 V	PulseOperation
Maximum pulse anode dissipation	75 W	PulseOperation
Maximum heater voltage	5.8 V	PulseOperation

TUBE TINKER

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