



ELECTRONIC TUBE REFERENCE

V301

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Directly heated tungsten-filament high-vacuum rectifier for specialized high-voltage supplies. Its roughly 30 kV inverse-voltage capability is paired with very low output current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 1.2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	0.5 mA
PEAK INVERSE VOLTAGE	30000 V
NOMINAL OUTPUT CURRENT	0.5 mA
WARM-UP TIME	3 s
<i>High-vacuum rectifier; average anode current used as nominal output current.</i>	

Directly heated tungsten-cathode high-vacuum high-voltage rectifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 AEG

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

1953 AEG

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage nominal	2 V	—
Filament current maximum	1.2 A	—
Warm-up time maximum	3 sec	—
Peak inverse voltage maximum	30 kV	—
Anode dissipation maximum	5 W	—
Saturation current maximum	1.5 mA	—
Average anode current maximum	0.5 mA	—

TUBE TINKER

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