



ELECTRONIC TUBE REFERENCE

1654

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Ruggedized directly heated half-wave rectifier for very small currents at high voltage, combining exceptionally low filament power with approximately 7 kV inverse-voltage capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	1.4 V / 50 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM CATHODE CURRENT	20 mA
PEAK INVERSE VOLTAGE	7000 V
NOMINAL OUTPUT CURRENT	1 mA
PEAK FORWARD CURRENT	6 mA
<i>Half-wave high-vacuum rectifier.</i>	

Ruggedized directly heated single-diode high-voltage rectifier for very small currents at high voltage.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Compagnie General

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

1958 COMPAGNIE GENERAL

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	4300 V	—
Maximum Supply Frequency	500 Hz	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Rectifier

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate To Filament Capacitance	1.4 pF	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate Supply Voltage	2500 V	HalfWaveRectifier
FilterInputCapacitance	0.025 uF	HalfWaveRectifier
TotalEffectivePlateSupplyImpedance	175000 ohm	—
DC Output Voltage	2350 V	AtFilterInput
HotSwitchingPeakCurrent	20 mA	Duration=0.1s

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker