



ELECTRONIC TUBE REFERENCE

7789

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Indirectly heated hydrogen-filled half-wave diode for high-voltage rectifier circuits. Rated for approximately 20 kV peak inverse voltage, 400 mA DC output, and 1.6 A peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	A4-81	BASE PINS	8
NOMINAL HEATER	5 V / 8.5 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	400 mA
PEAK FORWARD CURRENT	1.6 A
FORWARD VOLTAGE DROP	40 V
Published ratings and characteristics mapped semantically; identical repeated sections compressed.	

Indirectly heated hydrogen-filled half-wave diode for high-voltage rectifier circuits.



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

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Heating Time	3 min	—

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HydrogenFilled	1	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Tung Sol Industrial Tubes

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

1965 TUNG SOL INDUSTRIAL TUBES

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	5 V	—
Heater current	8.5 A	—
Surge cathode current	30 A	0.1 second
Averaging time	15 s	—
Ambient temperature	-55–75 degC	—