



ELECTRONIC TUBE REFERENCE

2T270K

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Miniature high-vacuum half-wave rectifier for very-high-voltage, low-current power supplies. Rated for approximately 12.5 kV peak inverse voltage, 5 mA DC output, and 40 mA peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B7G	BASE PINS	7
NOMINAL HEATER	4 V / 500 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	12500 V
NOMINAL OUTPUT CURRENT	5 mA
PEAK FORWARD CURRENT	40 mA
WARM-UP TIME	30 s
<i>Mercury-vapour or high-voltage rectifier ratings promoted from the published maximum-ratings table.</i>	

Miniature high-vacuum half-wave high-voltage rectifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum applied RMS voltage	5.5 kV	CapacitorInputFilter
Maximum no-load peak inverse voltage	15.5 kV	CapacitorInputFilter
Recommended reservoir capacitor	0.3 uF	CapacitorInputFilter
Minimum limiting equivalent resistor	50 kOhm	CapacitorInputFilter
Minimum anode-supply delay	30 s	CapacitorInputFilter



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Standard Valves

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

1947 STANDARD VALVES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumAppliedRMSVoltage	5.5 kV	—
MaximumAppliedRMSVoltageSimultaneousHeaterAnodeSwitching	3.5 kV	—
MaximumNoLoadPeakInverseVoltage	15.5 kV	—
RecommendedReservoirCondenser	0.25 uF	CapacitorInputFilter 50Hz

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MinimumSeriesLimitingResistance	62000 ohm	5.5kV RMS CapacitorInputFilter

TUBE TINKER

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and their source documents.

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