



ELECTRONIC TUBE REFERENCE

8224

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-vacuum high-voltage half-wave rectifier for hold-off, voltage-multiplier, and energy-storage applications. Its roughly 150 kV inverse-voltage capability suits specialized pulse and power systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5.5 V / 6.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	60 W
PEAK INVERSE VOLTAGE	150000 V
PEAK FORWARD CURRENT	750 mA
WARM-UP TIME	2 s
<i>Applicable promoted ratings populated from printed headings; remaining published device-specific data retained as parameters.</i>	

High-vacuum high-voltage rectifier for hold-off, multiplier and energy-storage applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 Machlette Laboratories

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

1971 MACHLETTE LABORATORIES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Anode Voltage Oil Insulation	150000 V	—
Peak Inverse Anode Voltage Air Insulation	80000 V	—
Average DC Load Current Single Phase Full Wave	250 mA	Unfiltered
Average DC Load Current Single Phase Full Wave Filtered	270 mA	ChokeInputFilter
Average DC Load Current Three Phase Double-Y	750 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	1000 V	Ib=0.75A

TUBE TINKER

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and their source documents.

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