



ELECTRONIC TUBE REFERENCE

225A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Eimac 2-25A directly heated high-vacuum rectifier for specialized high-voltage supplies. Its compact heavy-duty construction provides tens-of-kilovolts inverse-voltage capability at modest current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE DISSIPATION	15 W
PEAK INVERSE VOLTAGE	25000 V
NOMINAL OUTPUT CURRENT	50 mA
PEAK FORWARD CURRENT	1 A
<i>Published per-tube maximum ratings promoted from the source.</i>	

The Eimac 2-25A is a high-vacuum rectifier for high-voltage power supplies, rated for approximately 50 mA average plate current and 25 kV peak inverse voltage.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Eimac Tubes

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

1950 EIMAC TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average plate current	50 mA	Maximum average plate current from Eimac high-vacuum rectifier table.
Plate dissipation	15 W	Maximum plate dissipation from Eimac high-vacuum rectifier table.
Peak inverse voltage	25000 V	Maximum peak inverse voltage from Eimac high-vacuum rectifier table.
Filament voltage	6.3 V	Nominal filament voltage from Eimac high-vacuum rectifier table.
Filament current	3 A	Nominal filament current from Eimac high-vacuum rectifier table.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	1200 ohm	—
Filament Voltage Range	6–6.6 V	For maximum tube life

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Eimac Tube Manual

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

1965 EIMAC TUBE MANUAL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The [1]	2 mA	The 2-25A has a maximum d-c current rating of 50 milliamperes and a
The [2]	-25 mA	The 2-25A has a maximum d-c current rating of 50 milliamperes and a
The [3]	50 mA	The 2-25A has a maximum d-c current rating of 50 milliamperes and a
maximum peak inverse vol+age rating of	25	maximum peak inverse vol+age rating of 25.000 vol+s. Cooling is by convection
A single [1]	2 pF	A single 2-25A will deliver 40 milliamperes at 10,000 volts +o a capacitor-
A single [2]	-25 pF	A single 2-25A will deliver 40 milliamperes at 10,000 volts +o a capacitor-
A single [3]	40 pF	A single 2-25A will deliver 40 milliamperes at 10,000 volts +o a capacitor-
A single [4]	10000 pF	A single 2-25A will deliver 40 milliamperes at 10,000 volts +o a capacitor-
Current	3 A	Current 3.0 amperes
Maximum Temperature of plate seal	225	Maximum Temperature of plate seal - - 225OC
PEAK INVERSE PLATE VOLTAGE	25000 V	PEAK INVERSE PLATE VOLTAGE - - 25,000 MAX. VOLTS
PLATE DISSIPATION	15 W	PLATE DISSIPATION - - - 15 MAX. WATTS
D-C PLATE CURRENT]	50 mA	D-C PLATE CURRENT] . . . 50 MAX. MA
PEAK PLATE CURRENT I	0 mA	PEAK PLATE CURRENT I.0 MAX. AMPERE
MECHANICAL Cooling-The [1]	2	MECHANICAL Cooling-The 2-25A is cooled by convoc+ion and radiation.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
peak current usually limits +ho d-c current whicl` the [2]	-25 A	peak current usually limits +ho d-c current whicl` the 2-25A capability in a given circuit. When +wo +ubes are placed in
pation associated with a given d-c current d@ponds upon the	2 A	pation associated wi+h a given d-c current d@ponds upon the 2] the plate resistance (Rp) will be half as great and the
the [1]	2 W	the 2-25A is 25,000 volts. In single-phase power-supply rectifier
the [2]	-25 W	the 2-25A is 25,000 volts. In single-phase power-supply rectifier
the [3]	25000 W	the 2-25A is 25,000 volts. In single-phase power-supply rectifier
peak a-c supply voltage (I [1]	41 V	peak a-c supply voltage (I.41 times Elms in Fig. 2) in the
peak a-c supply voltage (I [2]	2 V	peak a-c supply voltage (I.41 times Elms in Fig. 2) in the
is low, the [1]	2 A	is low, the 2-25A is capable of larger d-c ou+put currents.
is low, the [2]	-25 A	is low, the 2-25A is capable of larger d-c ou+put currents.
half-wave rec+i{iers. maximum current rating of the [1]	2 mA	half-wave rec+i{iers. maximum current rating of the 2-25A is 90 milliamperes.
half-wave rec+i{iers. maximum current rating of the [2]	-25 mA	half-wave rec+i{iers. maximum current rating of the 2-25A is 90 milliamperes.
half-wave rec+i{iers. maximum current rating of the [3]	90 mA	half-wave rec+i{iers. maximum current rating of the 2-25A is 90 milliamperes.
Capacioer-Input Finer-The [1]	2	Capacioer-Input Finer-The 2-25A is par+icularly suitable for Tl`e pla+a cliarac+@ris+ic curve for +he 2-25A serves as a
Capacioer-Input Finer-The [2]	-25	Capacioer-Input Finer-The 2-25A is par+icularly suitable for Tl`e pla+a cliarac+@ris+ic curve for +he 2-25A serves as a
Capacioer-Input Finer-The [3]	2	Capacioer-Input Finer-The 2-25A is par+icularly suitable for Tl`e pla+a cliarac+@ris+ic curve for +he 2-25A serves as a
Capacioer-Input Finer-The [4]	-25	Capacioer-Input Finer-The 2-25A is par+icularly suitable for Tl`e pla+a cliarac+@ris+ic curve for +he 2-25A serves as a

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current. Under +hose conditions capacitor-input filter circuit rating of	15 V	current. Under +hose conditions capacitor-input filter circuit rating of 15 watts, the maximum peak inverse voltage rating of
become desirable. The maximum d-c current rating of the [1]	2 mA	become desirable. The maximum d-c current rating of the 2-25A 25,000 volts, and the maximum peak plate current of 1.0 ampere
become desirable. The maximum d-c current rating of the [2]	-25 mA	become desirable. The maximum d-c current rating of the 2-25A 25,000 volts, and the maximum peak plate current of 1.0 ampere
become desirable. The maximum d-c current rating of the [3]	25000 mA	become desirable. The maximum d-c current rating of the 2-25A 25,000 volts, and the maximum peak plate current of 1.0 ampere
become desirable. The maximum d-c current rating of the [4]	0 mA	become desirable. The maximum d-c current rating of the 2-25A 25,000 volts, and the maximum peak plate current of 1.0 ampere
Eimac [1]	2 mA	Eimac 2-25A Maximum D-C Current Ratings for R-C Filter Applications
Eimac [2]	-25 mA	Eimac 2-25A Maximum D-C Current Ratings for R-C Filter Applications
D-C Plate® Current (I _p) [1]	35 A	D-C Plate® Current (I _p) 35.0 37.5 40.0 42.5 45.0 47.5 50.0 milliamperes per tube
D-C Plate® Current (I _p) [2]	37.5 A	D-C Plate® Current (I _p) 35.0 37.5 40.0 42.5 45.0 47.5 50.0 milliamperes per tube
D-C Plate® Current (I _p) [3]	40 A	D-C Plate® Current (I _p) 35.0 37.5 40.0 42.5 45.0 47.5 50.0 milliamperes per tube
D-C Plate® Current (I _p) [4]	42.5 A	D-C Plate® Current (I _p) 35.0 37.5 40.0 42.5 45.0 47.5 50.0 milliamperes per tube
D-C Plate® Current (I _p) [5]	45 A	D-C Plate® Current (I _p) 35.0 37.5 40.0 42.5 45.0 47.5 50.0 milliamperes per tube
D-C Plate® Current (I _p) [6]	47.5 A	D-C Plate® Current (I _p) 35.0 37.5 40.0 42.5 45.0 47.5 50.0 milliamperes per tube
D-C Plate® Current (I _p) [7]	50 A	D-C Plate® Current (I _p) 35.0 37.5 40.0 42.5 45.0 47.5 50.0 milliamperes per tube

TUBE TINKER

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