



ELECTRONIC TUBE REFERENCE

3B22

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Gas-filled full-wave rectifier with two rectifier paths for power-supply applications. Rated for approximately 725 V peak inverse voltage, 500 mA DC output, and 4 A peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	2.5 V / 6.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	725 V
NOMINAL OUTPUT CURRENT	500 mA
PEAK FORWARD CURRENT	4 A
Two identical rectifying anodes share the directly heated filament/cathode; one representative section row emitted.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	725 V
NOMINAL OUTPUT CURRENT	500 mA
PEAK FORWARD CURRENT	4 A
Second physical rectifier section; electrical properties populated from the documented identical section.	

The 3B22 is a gas-filled rectifier documented in the approved datasheet, with published filament and rectifier operating ratings.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1942 Electronics Inc

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

1942 ELECTRONS INC

Section 1 · Rectifier

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating time	20 s	Published datasheet value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuously recurring peak current	4 A	Oscilloscope peak

1942 ELECTRONS INC

Section 2 · Rectifier

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating time	20 s	Published datasheet value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuously recurring peak current	4 A	Oscilloscope peak



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 English Electric Valve

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

1971 ENGLISH ELECTRIC VALVE

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	2.5 V	—
Filament current	6.25 A	—
Minimum filament heating time	20 s	—
Peak anode current per anode	4 A	—
Mean anode current per anode	500 mA	4.5 s averaging

1971 ENGLISH ELECTRIC VALVE

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	2.5 V	—
Filament current	6.25 A	—
Minimum filament heating time	20 s	—
Peak anode current per anode	4 A	—
Mean anode current per anode	500 mA	4.5 s averaging

TUBE TINKER

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