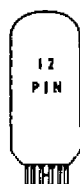


(TENTATIVE)

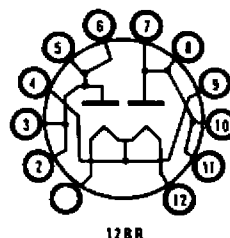
engineering data for



BULLETIN E-424A
5-61



5AZ3



CBS type 5AZ3 is a high-vacuum full-wave power rectifier which is designed for greater reliability and longer life. This tube employs a 12-pin button stem for better thermal efficiency. Internally generated heat flows easily through the double pins to the outside for radiation without the interference of undependable base-pin solder. In addition, the filament is center tapped for the d-c current connection so that the d-c component of filament current is equalized.

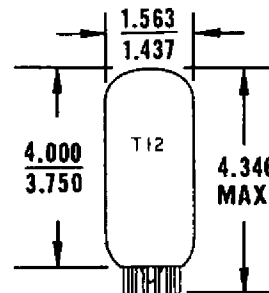
Electrically the 5AZ3 is identical to the 5U4GB and may be used for the same applications.

MECHANICAL DATA

Cathode, coated filament	
Bulb	T-12
Overall height	4.346" max.
Seated height	4.000" max.
Base	E12-74
Basing	12 BR
Mounting position	Any
Outline	EIA12-62

PIN CONNECTIONS

Pin 1:	Filament 2
Pin 2:	Plate 2 (I.C. to pins 3, 5 & 6)
Pin 3:	Plate 2 (I.C. to pins 2, 5 & 6)
Pin 4:	Filament center tap (I.C. to pin 9)
Pin 5:	Plate 2 (I.C. to pins 2, 3 & 6)
Pin 6:	Plate 2 (I.C. to pins 2, 3 & 5)
Pin 7:	Plate 1 (I.C. to pins 8, 10 & 11)
Pin 8:	Plate 1 (I.C. to pins 7, 10 & 11)
Pin 9:	Filament center tap (I.C. to pin 4)
Pin 10:	Plate 1 (I.C. to pins 7, 8 & 11)
Pin 11:	Plate 1 (I.C. to pins 7, 8 & 10)
Pin 12:	Filament 1



from JEDEC release #3230A, June 12, 1961

ELECTRICAL DATA

FILAMENT CHARACTERISTICS

Voltage, a-c or d-c	5.0 $\pm$ 10% volts
Current	3.0 amp

MAXIMUM RATINGS (Design maximum values)

Rectifier Service †

Plate voltage, peak inverse	1700	volts
Plate supply voltage, rms (Rating Chart I)	600	volts
D-c output current (Rating Chart I)		
Steady-state peak plate current, each plate (Rating Chart II)	1.0	amp
Transient peak plate current, each plate (Rating Chart III)	5.0	amp

AVERAGE CHARACTERISTICS

Tube conducting 225 ma (each plate)	44	volts
275 ma (each plate)	50	volts
300 ma (each plate)	54	volts

TYPICAL OPERATION

Full-Wave Rectifier (Capacitor Input Filter)

Plate supply voltage, rms (each plate)‡	300	450	volts
Plate supply resistance (each plate)	21	67	ohms
Filter input capacitor	40	40	μ f
Output current, d-c	300	275	ma
Output voltage at filter input, d-c	290	460	volts

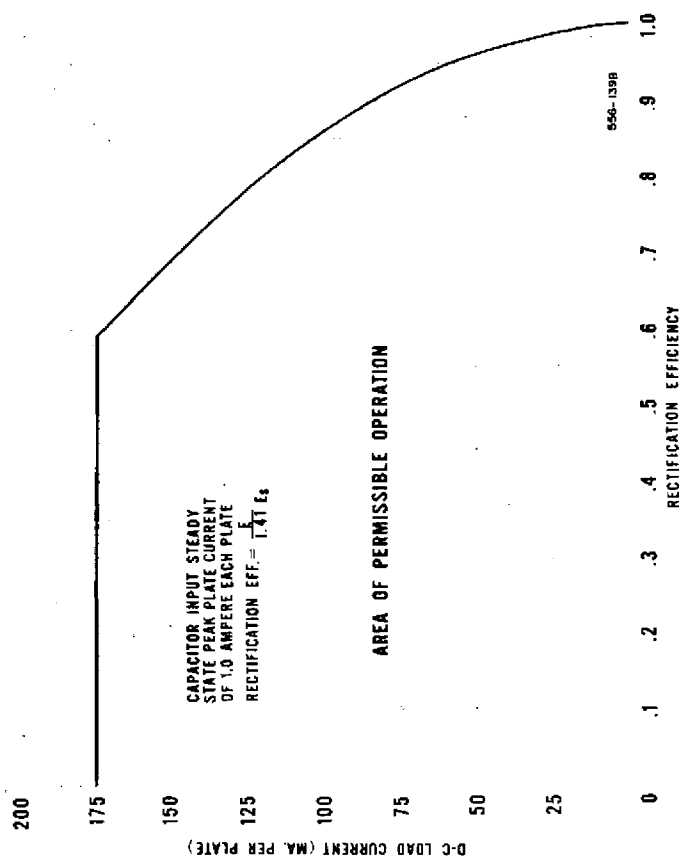
Full-Wave Rectifier (Choke Input Filter)

Plate supply voltage, rms (each plate)‡	550	volts
Filter input choke	10	henrys
Output current, d-c	275	ma
Output voltage at filter input, d-c	420	volts

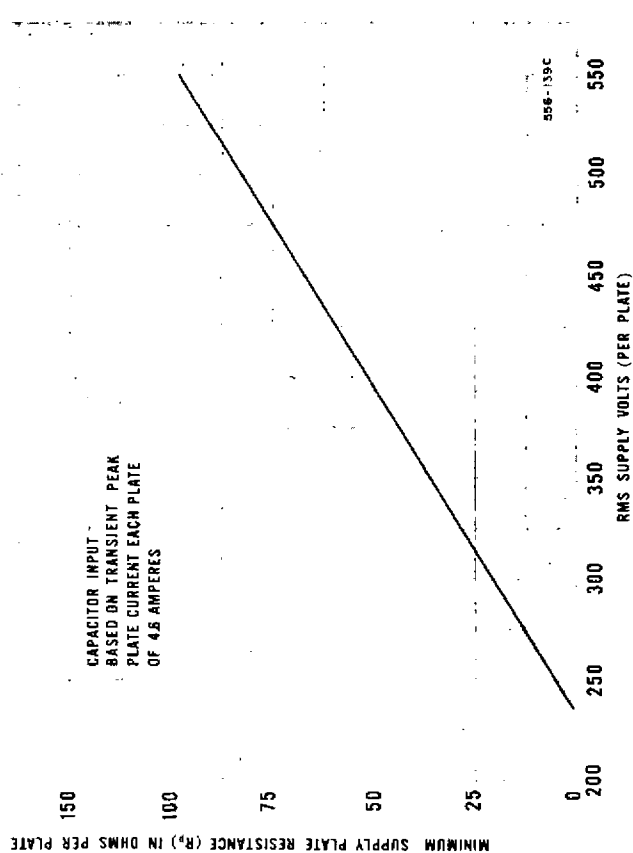
† For use with sinusoidal supply voltages within the frequency range of 25 to 1000 c.p.s.

‡ The indicated a-c supply voltage is measured without load.

RATING CHART II



RATING CHART III



RATING CHART I

