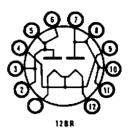
engineering data for



BULLETIN E-424A



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

Pin 12:

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)	1.563
Pin 3:	Plate 2 (I.C. to pins 2, 5 & 6)	1.437
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)	4.000 T12 4.346
Pin 7:	Plate 1 (I.C. to pins 8, 10 & 11)	3.750 MAX.
Pin 8:	Plate 1 (I.C. to pins 7, 10 & 11)	1 1
Pin 9:	Filament center tap (I.C. to pin 4)	
Pin 10:	Plate 1 (I.C. to pins 7, 8 & 11)	UU U U U U
Pin 11:	Plate 1 (I.C. to pins 7, 8 & 10)	

from JEDEC release #3230A, June 12, 1961

Filament 1

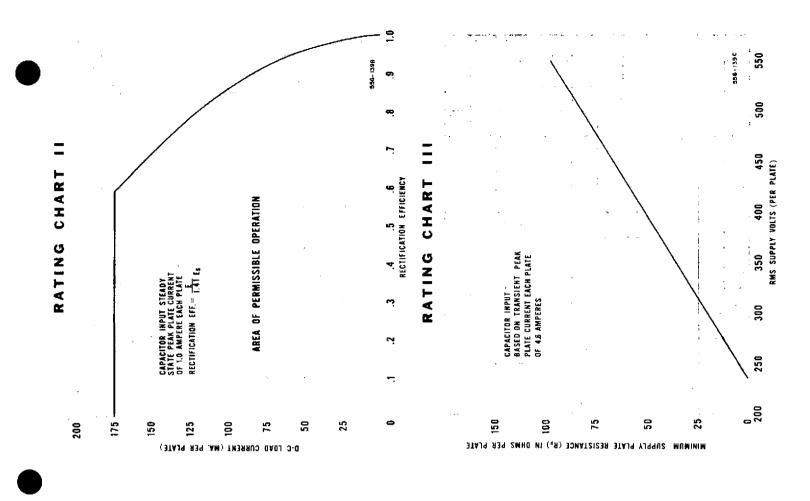
ELECTRICAL DATA

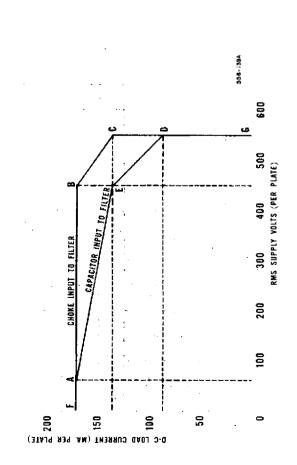
FILAMENT CHARACTERISTICS

Voltage, a-c or d-c		5.0 <u>+</u> 10%	
Current		3.0	amp
ACAMA DAMAN GO (Deer)			
MAXIMUM RATINGS (Design maximum values)			
Rectifier Service †			
Plate voltage, peak inverse		1 70 0	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)			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) t	300	450	volts
Plate supply resistance (each plate)	21	67	ohms
Filter input capacitor	40	40	μf
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			enrys
Output current, d-c		275	ma
Output voltage at filter input, d-c		420	volts
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 $[\]dagger$ 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