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HALF-WAVE GAS RECTIFIER

GENERAL DATA

Electrical:

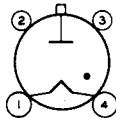
Filament, Coated:
 Voltage 2.5 ± 5% ac volts
 Current at 2.5 volts. 5 amp
 Minimum heating time
 at rated voltage. 15 sec ←

Mechanical:

Operating Position. Any
 Maximum Overall Length. 6-5/16"
 Seated Length 5-1/4" ± 7/16"
 Maximum Diameter. 2-1/16" ←
 Weight (Approx.). 3 oz ←
 Bulb. T16 ←
 Cap Medium (JETEC No. C1-5) ←
 Base. Medium-Shell Small 4-Pin ←
 with Bayonet (JETEC No. A4-10)

Basing Designation for BOTTOM VIEW. 4P

Pin 1 - Filament
 Pin 2 - No Connection
 Pin 3 - No Connection



Pin 4 - Filament,
 Cathode
 Shield
 Cap - Anode

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Maximum Ratings, Absolute Values:

For anode-supply frequencies up to 500 cps

PEAK INVERSE ANODE VOLTAGE. 4500 max. volts
 ANODE CURRENT:
 Peak. 2 max. amp
 Average*. 0.5 max. amp
 Fault, for duration of
 0.1 second maximum. 20 max. amp
 AMBIENT-TEMPERATURE RANGE -75 to +90 °C

CHARACTERISTICS RANGE VALUES# FOR EQUIPMENT DESIGN

	Note	Min.	Max.	
Filament Current.	1	4.6	5.4	amp
Critical Anode Voltage.	2	-	110	volts
Peak Tube Voltage Drop.	3	-	14	volts

Note 1: With 2.5 volts rms on filament.

Note 2: With 2.38 volts rms on filament.

Note 3: With 2.5 volts rms on filament, peak anode current of 2 amperes provided by half-cycle pulse from a 60-cps sine wave and recurring approximately once a second. Tube drop is measured by an oscilloscope connected between anode and center-tap of filament transformer.

* # : See next page.

← Indicates a change.



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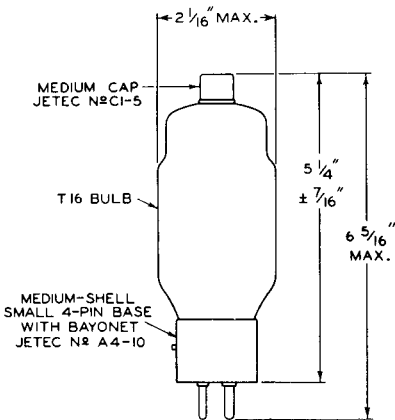
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* Averaged over any period of 30 seconds maximum.

Throughout tube life.

OPERATING CONSIDERATIONS

If the *anode return* of each tube is not connected to the center-tap of the filament-supply winding, the return should be made to that side of the filament to which the cathode shield is connected.



92CM-6555R3



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For Circuit Figures, see Front of this Section

CIRCUIT	MAX. TRANS. SEC. VOLTS (RMS) E	APPROX. DC OUTPUT VOLTS TO FILTER E _{av}	MAX. DC OUTPUT AMPERES		MAX. DC OUTPUT KW TO FILTER P _{dc}	
			<i>I</i> _{av}			
Fig. 1 Half-Wave Single-Phase In-Phase Operation	3100	1400	0.5		0.7	
Fig. 2 Full-Wave Single-Phase In-Phase Operation	1500	1400	1.0		1.4	
Fig. 3 Series Single-Phase In-Phase Operation	3100	2900	1.0		2.9	
Fig. 4 Half-Wave Three-Phase In-Phase Operation	1800	2200	1.5		3.3	
Fig. 5 Parallel Three-Phase Quadrature Operation	1800	2200	3.0		6.6	
Fig. 6 Series Three-Phase Quadrature Operation	1800	4300	1.5		6.4	
Fig. 7 Half-Wave Four-Phase Quadrature Operation	1500	2000	Resis- tive Load 1.8	Induc- tive Load 2.0	Resis- tive Load 3.6	Induc- tive Load 4.0
Fig. 8 Half-Wave Six-Phase Quadrature Operation	1500	2200	Resis- tive Load 1.9	Induc- tive Load 2.0	Resis- tive Load 4	Induc- tive Load 4.4