2X2-A

HALF-WAVE VACUUM RECTIFIER

For applications critical as to severe shock and vibration

GENERAL DATA

Electrical:

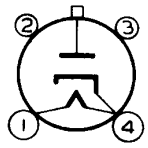
Heater, for Unipotential Cathode:

	Min.	Av.	Max.	
Voltage	2.25	2.50	2.75	ac volts
Current at 2.50 volts	1.55	1.75	1.95	amp

Mechanical:

Mounting Position	Any
Maximum Overall Length	4-17/32" ←
Seated Length	3-25/32" ± 1/8"
Maximum Diameter	1-9/16"
Dimensional Outline	*See General Section*
Weight (Approx.)	1.3 oz ←
Bulb	ST-12
Cap	Small (JETEC No.C1-1) ←
Base	Small-Shell Small 4-Pin (JETEC No.A4-5) ←
Basing Designation for BOTTOM VIEW	4AB

Pin 1 - Heater
Pin 2 - No Connection
Pin 3 - No Connection
Pin 4 - Heater, Cathode
Cap - Plate



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Maximum Ratings, *Design-Center Values:*

PEAK INVERSE PLATE VOLTAGE	12500 max.	volts
PEAK PLATE CURRENT	60 max.	ma
DC OUTPUT CURRENT	7.5 max.	ma
HOT-SWITCHING TRANSIENT CURRENT, for duration of 0.2 second max.	100 max.	ma
AMBIENT TEMPERATURE	70 max.	oC ←

Typical Operation:

AC Plate-Supply Voltage (RMS)	5500	volts
Total Effective Plate-Supply Impedance	0.3	megohm
Filter Input Capacitor	0.1	μf
DC Output Current	2	ma
DC Output Voltage (At input to filter)	4500	volts

SHOCK TEST DATA ←

Impact Acceleration	250 max.	g

This test is performed on a sample lot of tubes from each production run to determine ability of tube to withstand the specified impact acceleration. The tubes are subjected to a total of 3 blows in each of the 3 primary mutually

← Indicates a change.

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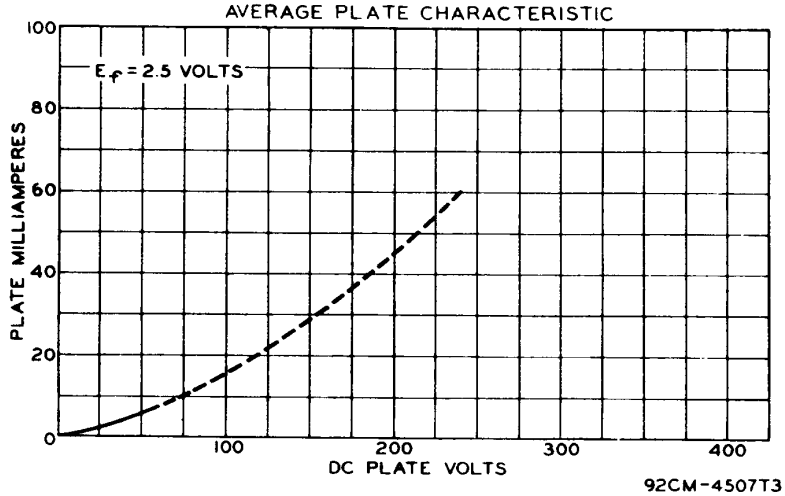
perpendicular tube planes when tested in the Navy Type, High-Impact (flyweight) Shock Machine. At the end of this test, tubes will not show permanent or temporary shorts or open circuits, and will not be inoperative.

AVERAGE PLATE CHARACTERISTIC



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