



1654

1654 HALF-WAVE VACUUM RECTIFIER

MINIATURE TYPE

GENERAL DATA**Electrical:**

Filament, Coated:

Voltage. 1.4 ac or dc volts

Current. 0.05 amp

Direct Interelectrode Capacitance (Approx.):^oPlate to Filament. 1.4 μmf ^o With no external shield.**Mechanical:**

Mounting Position. Any

Maximum Overall Length 2-7/16"

Maximum Seated Length. 2-3/16"

Maximum Diameter 3/4"

Bulb T-5-1/2

Base Small-Button Miniature 7-Pin

Basing Designation for BOTTOM VIEW 2Z

Pin 1-Filament -

Pin 2-Internal Con.

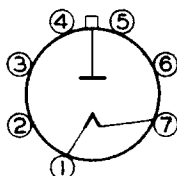
Do Not Use

Pin 3-Internal Con.

Do Not Use

Pin 4-No Connection

Pin 5-No Connection



Pin 6-Internal Con.

Do Not Use

Pin 7-Filament +

Bulb

Ter-

minal

} Plate

HALF-WAVE RECTIFIER**Maximum Ratings, Design-Center Values:***

PEAK INVERSE PLATE VOLTAGE 4300 max. volts ←

PEAK PLATE CURRENT[†]. 6 max. ma

AVERAGE PLATE CURRENT 1 max. ma

Typical Operation:

AC Plate-Supply Voltage. 1500 . . volts ←

Filter-Input Capacitor 0.025 . . μf

Total Effective Plate-Supply Impedance 150000 . . ohms ←

DC Output Current. 1 . . ma

DC Output Voltage (At Input to Filter)* 1230 . . volts ←

Circuit Values:

A plate-supply impedance of 150000 ohms is required in order that the "hot-switching" current will not exceed the permissible value of 15 ma. under conditions of normal line-voltage fluctuation. For plate-supply voltages lower than 1500 volts, the plate-supply impedance may be decreased provided the resultant peak-current rating of 6 ma. and the "hot-switching" current of 15 ma. are not exceeded.

* , †, * : See next page.

← Indicates a change.

MAR. 15, 1948

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

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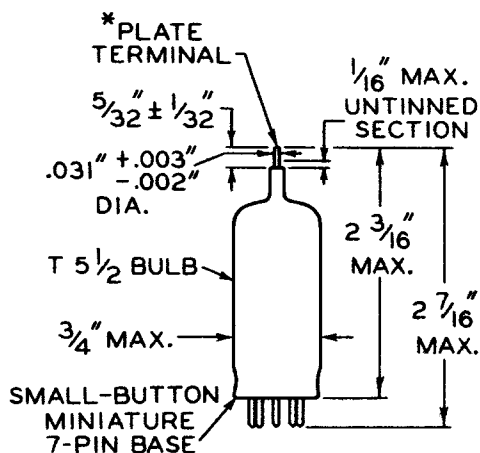
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• These ratings apply to the 1654 when it is operated from a power supply having a frequency up to 500 cycles per second. If a contemplated application involves higher supply frequencies, please write, stating the proposed operating frequency, to Commercial Engineering, RCA, Harrison, N. J., as to the required reduction in ratings.

→ ■ A peak value of 15 ma. for 0.1 second is permitted under conditions of "hot-switching", i.e., switching the plate circuit "on" while the filament is hot.

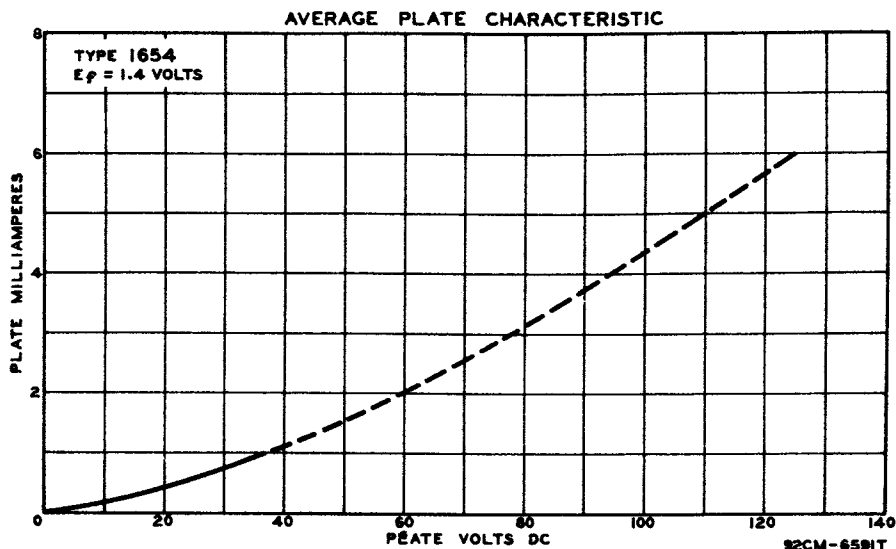
* Values are approximate.

→ Indicates a change.



92CS-6590

*PLATE TERMINAL AT TIP MAY BE ECCENTRIC WITH RESPECT TO BASE AXIS BY 1/8" MAX.



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