

FEDERAL

F-357-A HALF WAVE RECTIFIER

TECHNICAL DATA

No. of Electrodes	2
Filament Voltage	5 volts
Current	37.5 amperes
Heating Time	120 seconds
Maximum Average Current	10 amperes
Maximum Peak Current	40 amperes
Maximum Peak Inverse Voltage*	22,000 volts— Ambient Temperature 30°—40°C. 10,000 volts— Ambient Temperature 15°—50°C.
Overall Dimensions	
Maximum Length	19 ⁷ / ₈ inches
Minimum Length	19 ¹ / ₈ inches
Maximum Diameter	7 ¹ / ₈ inches
Type Base and Cap	Standard
Mounting	Standard
Recommended Operating Ambient Temperature Range	15°—50°C.

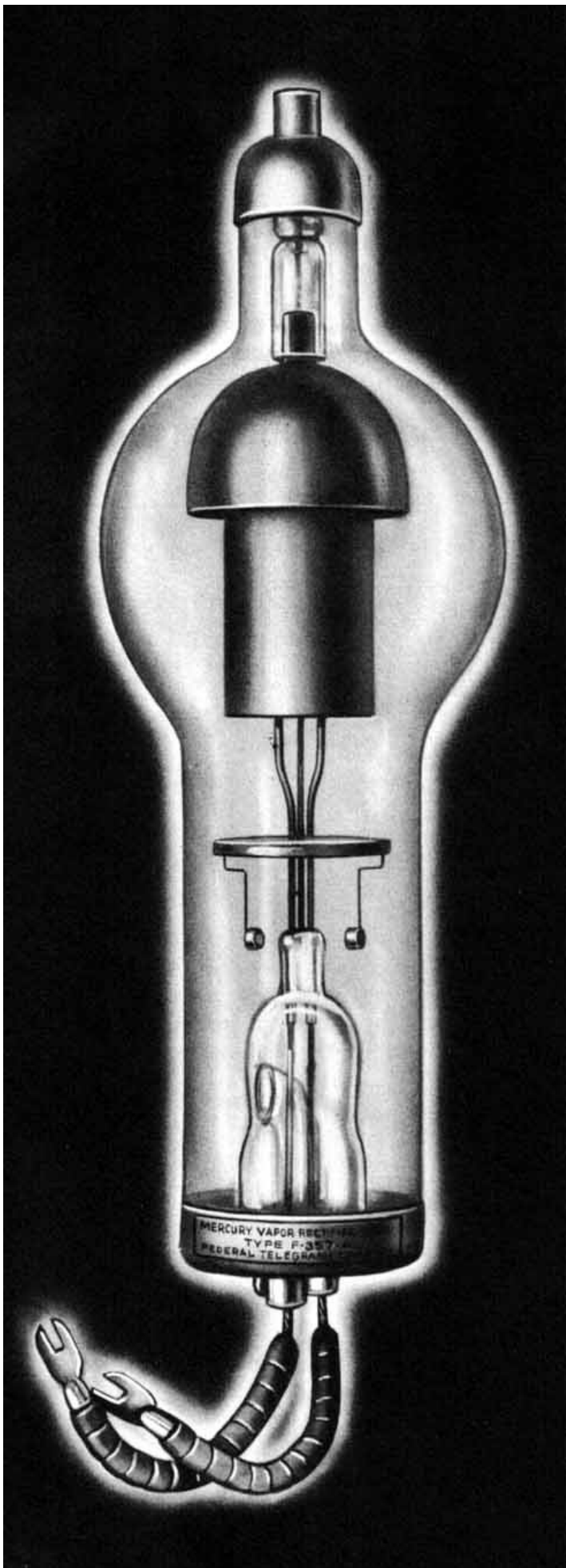
* For plate potentials in excess of 10,000 V. peak inverse, temperature regulated forced air cooling must be employed.

The information herein by no means represents exact conditions of operation to be imposed for any particular situation. Since tubes are used under many widely different conditions the manufacturer will gladly furnish information regarding characteristics for design purposes.

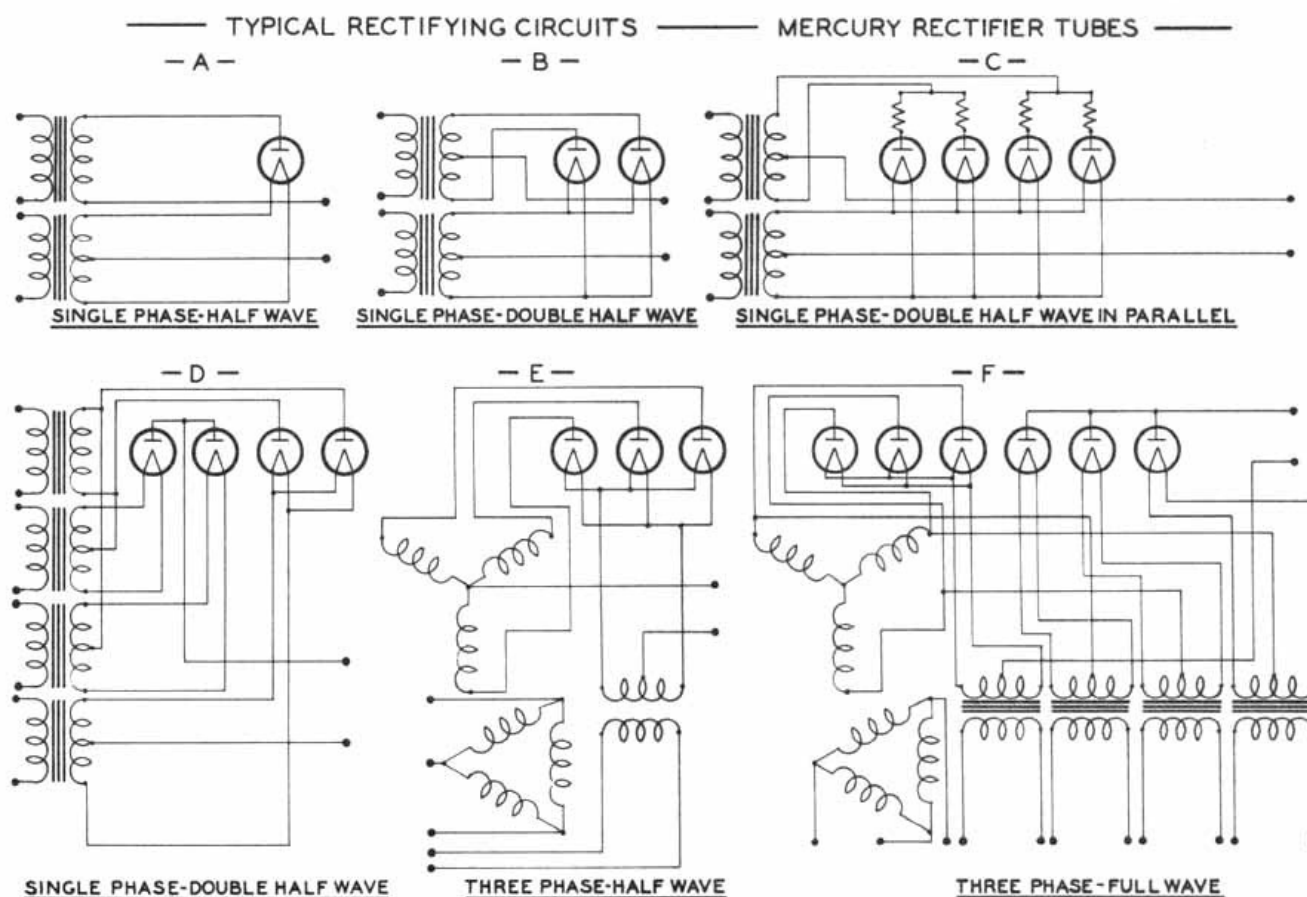
Manufactured by

FEDERAL TELEGRAPH CO.

200 Mt. Pleasant Avenue Newark, N. J., U. S. A.



F-357-A HALF WAVE RECTIFIER



Typical rectifying circuits in which Type F-357-A may be employed are illustrated above. The approximate D.C. output current and voltage for each type of rectifying circuit shown, when tubes are operated at maximum permissible space current and inverse voltages, are given in the following table:

<i>Circuit</i>	<i>No. of Tubes</i>	<i>Input Voltage R.M.S.</i>	<i>Approx. D.C. Output Volts</i>	<i>Ampères</i>
A	1	15,500 per tube	7000	10
B	2	7,750 per tube	7000	20
C	4	7,750 per tube	7000	40
D	4	15,500 per 2 tubes	14000	20
E	3	9,000 per leg	10500	30
F	6	9,000 per leg	21000	30

The above values are for rectifiers working into filters the input inductance of which is sufficient to maintain the output current substantially constant. Pure sine waveform of the power source is assumed. Transformer regulation and voltage drops in tubes and filter are neglected.