

RCA-836

Half-Wave High-Vacuum Rectifier

RCA-836 is a high-vacuum, half-wave rectifier tube of the heater-cathode type for use in high-voltage rectifying devices to supply d-c power. The excellent voltage regulation characteristic of this tube is due to the close spacing of the cathode and plate, and to the use of double cathode construction. In single-phase circuits, full-wave rectification is accomplished by using two 836's.

CHARACTERISTICS

HEATER VOLTAGE (a-c)	2.5	Volts
HEATER CURRENT	5	Amperes
PEAK INVERSE VOLTAGE	5000 max.	Volts
PEAK PLATE CURRENT	1.0 max.	Ampere
AVERAGE PLATE CURRENT	0.25 max.	Ampere

INSTALLATION AND APPLICATION

The base pins of the 836 fit the standard 4-contact socket, such as the RCA type UR-542A. The socket may be mounted to hold the tube in any position. The plate lead is brought out to the cap at the top of the bulb.

Heater voltage should be applied for a length of time sufficient to permit the cathode to come up to operating temperature before plate current is drawn from the tube. For average conditions, the delay should be approximately 40 seconds.

The cathode of the RCA-836 is connected to one side of the heater circuit within the tube. When the positive return lead to the filter and load circuit is not connected to the electrical mid-point of the heater circuit, it should be connected to the heater lead to which the cathode is tied. When the heaters of two or more 836's are operated in parallel, the corresponding cathode leads must be connected together: likewise, the corresponding heater leads.

For outline drawing, refer to type 809.

For additional information, see chapter on RECTIFIERS and FILTERS.

