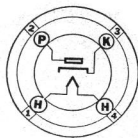


Sylvania

TYPE 1-V

HALF-WAVE

RECTIFIER



CHARACTERISTICS

Heater Voltage AC or DC	6.3 Volts
Heater Current	0.3 Ampere
Maximum Over-all Length	4 1/4"
Maximum Diameter	1 1/8"
Bulb	ST-12
Base—Small 4-Pin	4-G

Operating Conditions and Characteristics:

Heater Voltage	6.3 Volts
A-C Plate Voltage (RMS)	350 Volts Max.*
D-C Output Load Current	60 Ma. Max.

*Maximum rating may be employed only under condition that there be at least 100 ohms a-c resistance in series with the plate circuit.

NOTE: For rectifier curve data see Page 149.

CIRCUIT APPLICATION

The use of a 6.3 volt heater in Type 1-V makes the tube adaptable to small receivers designed either for AC-DC service or for storage battery operation (automotive service). This dual operation is made possible through proper circuit design which permits changing from one type of service to the other by means of a convenient switching device. In AC-DC sets the heaters of all tubes are arranged in series; for automobile service they are connected in parallel.

The filament and cathode are electrically insulated from each other so as to permit operation with a difference of potential existing between these elements. The maximum permissible voltage is 300 volts d.c. In general this condition is assured provided the tube is operated within its specified maximum plate voltage.

Sylvania 1-V is directly interchangeable with the mercury vapor rectifier Type 1, formerly designated as KR-1, in equipment where the a-c plate voltage does not exceed 350 volts r.m.s. The performance and use of the 1-V tube is quite similar to that of any other high vacuum type rectifier adaptable to half-wave circuits.