Sylvania

TYPE 80

FULL-WAVE RECTIFIER





CHARACTERISTICS

Filament Voltage AC								5.	0	Volts	
Filament Current .								2.	0	Amperes	
Maximum Over-all Le	ngt	h								4 117"	
Maximum Diameter				i.						1 18"	
Bulb										ST-14	
Base-Medium 4-Pin										4-C	

Operating Conditions and Characteristics:

Filament Voltage		5.0	5.0	5.0	Volts
A-C Voltage per Plate (RMS)		350	400	550	Volts
D-C Output		125	110	135*	Ma. Max.

NOTE: For rectifier curve data see Page 155.

*This rating is permissible only with filter circuits having an input choke of at least 20 h. If desired, a condenser of not more than 0.1 μ f may be used across the input of the filter.

CIRCUIT APPLICATION

Sylvania 80 is a full-wave vacuum type rectifier for use in supply-

ing direct current power from an a-c power supply line.

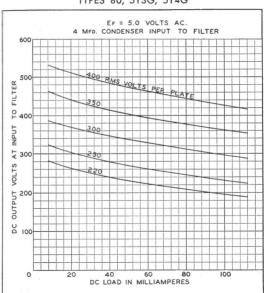
The filament employed in the 80 is of the oxide coated type. This filament is operated on alternating current from a five volt winding on the power transformer. The filament voltage should be held close to its rated value of 5 volts. Since the filament current is rather high (2.0 amperes) it is necessary to employ wire of the proper current carrying capacity. It is unnecessary to provide the filament winding with a center tap for most applications.

The power transformer for use in connection with the 80 tube must be provided with two windings, a filament winding as noted in the preceding paragraph and a high voltage center tapped

winding.

The a-c input voltage per plate must be limited to 350 volts r-m-s when the maximum d-c load current of 125 milliamperes is drawn from the tube if a capacitative input to the filter is used. If load requirements are such that the d-c current will never exceed 110 milliamperes, the transformer may be designed to supply an input voltage of 400 r-m-s volts per plate, with a capacitative input to the filter. It is possible to increase the load current to 135 milliamperes and the input voltage to 550 r-m-s volts per plate if a filter circuit using a choke of at least 20 henries is employed with no input condenser or a condenser of 0.1 mfd. maximum capacity.

TYPES 80, 5Y3G, 5Y4G



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