

# HY117



## PLUG-IN REPLACEMENT FOR 117Z6G OR 117Z6GT



The Hytron HY117 is a convenient plug-in type of selenium rectifier designed specifically to replace tube type 117Z6GT (or 117Z6G) when used as a half-wave rectifier with the two diode sections connected in parallel — the typical application for the 117Z6GT in three-way a-c/d-c battery portable receivers. The HY117 is comprised of a selenium rectifier with a compensating series resistor mounted in a perforated metal can attached to a standard octal base.

### PHYSICAL DATA

Base	5-pin wafer octal
Bulb	T-9 metal perforated
Maximum diameter	1-5/16 inches
Maximum overall length	3-7/16 inches
Maximum seated height	2-15/16 inches
Mounting position	any



### ELECTRICAL DATA

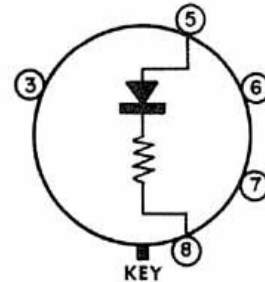
#### Maximum Ratings

Maximum a-c potential (RMS)	130 volts
Maximum peak inverse potential	380 volts
Maximum peak current	900 ma
Maximum a-c current (RMS)	220 ma
Maximum d-c output current	75 ma

#### Typical Operating Conditions and Characteristics — Half-Wave Rectifier

A-c potential (RMS)	117	117	117 volts
D-c output current	75	75	75 ma
Total eff. plate sup. impedance	30	30	100 ohms
Input capacitor	20	40	40 $\mu$ fd
D-c voltage output to filter	116	125	98 volts
Approximate rectifier drop	5	5	5 volts

### TERMINAL CONNECTIONS



Bottom view of socket

- Pin 3 ..... no connection
- Pin 5 ..... anode
- Pin 6 ..... no connection
- Pin 7 ..... no connection
- Pin 8 ..... cathode

NOTE: The HY 117 is not designed for replacement of the 117Z6GT: (1) when employed as a voltage doubler, (2) when the two diode sections are separately connected, (3) when used with 220-240 volts input. Such applications, however, represent less than 2% of the uses of the 117Z6GT.

PREPARED BY COMMERCIAL ENGINEERING DEPT.

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