Refer to chart at end of section.

HALF-WAVE VACUUM RECTIFIER

Glass octal type used in power supply of ac/dc receivers. The heater is provided with a tap for operation of a panel lamp. Outlines section, 13D; requires octal socket. This type may be supplied with pin No.1 omitted. For installation and application considerations, refer to miniature type 35W4.

Heater Voltage (ac/dc):
- Entire Heater (pins 2 and 7) ......................... 35 volts
- Panel Lamp Section (pins 2 and 3) .................. 7.5 volts

Heater Current:
- Between Pins 2 and 7 ..................... 0.15 ampere
- Between Pins 3 and 7 ..................... 0.15 ampere

Peak Heater-Cathode Voltage ............ ±350 max volts

* Without panel lamp.
** With No.40 or No.47 panel lamp.

MAXIMUM RATINGS (Design-Center Values)

- Peak Inverse Plate Voltage ...................... 700 volts
- Peak Plate Current .......................... 600 mA

Average Output Current:
- With Panel Lamp and No Shunting Resistor ........ 60 mA
- Shunting Resistor ........................... 90 mA
- Without Panel Lamp .......................... 100 mA

Panel-Lamp-Section Voltage (rms):
- When Panel Lamp Fails ...................... 15 volts

TYPICAL OPERATION WITH PANEL LAMP†

- AC Plate-Supply Voltage (rms) .......... 117 117 117 117 235 volts
- Filter-Input Capacitor ..................... 40 40 40 40 40 μF
- Minimum Total Effective Plate-Supply Impedance .... 15 15 15 15 100 ohms
- Panel-Lamp Shunting Resistor ............ 300 150 100 100 ohms
- Average Output Current ................... 60 70 80 90 60 mA

TYPICAL OPERATION WITHOUT PANEL LAMP¶

- AC Plate-Supply Voltage (rms) .......... 117 235 volts
- Filter-Input Capacitor ..................... 40 40 μF
- Minimum Total Effective Plate-Supply Impedance .... 15 100 ohms
- Average Output Current ................... 100 190 mA
- DC Output Voltage at Input to Filter (Approx.)
  - At half-load current (50 mA) ............ 140 280 volts
  - At full-load current (100 mA) .......... 120 235 volts
- Voltage Regulation (Approx.) .......... 20 45 volts

MAXIMUM CIRCUIT VALUES

- For dc output current of
  - 70 mA .................................. 800 ohms
  - 80 mA .................................. 400 ohms
  - 90 mA .................................. 250 ohms

* Required when dc output current is greater than 50 milliamperes.

Refer to chart at end of section.

Refer to chart at end of section.

Refer to type 6KD6.