



12SW7

DUPLEX-DIODE TRIODE*For use with 12-cell storage-battery supply*

12SW7

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. 12.6 ac or dc volts

Current. 0.15 amp.

Direct Interelectrode Capacitances—Triode Unit:^oGrid to Plate. 2.4 μmf Grid to Cathode. 3.0 μmf Plate to Cathode. 2.8 μmf **Mechanical:**

Mounting Position. Any

Maximum Overall Length. 2-5/8"

Maximum Seated Length. 2-1/16"

Maximum Diameter. 1-5/16"

Bulb. Metal Shell, MT8G

Base. Small Wafer Octal 8-Pin

Basing Designation for BOTTOM VIEW. 8Q

Pin 1—Shell

Pin 2—Triode Grid

Pin 3—Cathode

Pin 4—Diode Plate

No. 2

Pin 5—Diode Plate

No. 1

Pin 6—Triode Plate

Pin 7—Heater

Pin 8—Heater

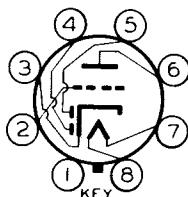
CLASS A₁ AMPLIFIER**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE. 250 max. volts

PLATE DISSIPATION. 2.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 90 max. volts

Heater positive with respect to cathode. 90 max. volts

Characteristics:

Plate Voltage. 26.5 250 . . . volts

Grid Voltage:

From a fixed supply of. - -9 . . . volts

From a grid resistor of. 2 - . . megohms

Amplification Factor. 17 16

Plate Resistance. 15500 8500 . . . ohms

Transconductance. 1100 1900 . . . μmhos

Plate Current. 1.1 9.5 . . . ma.

Typical Operation with Resistance Coupling:

See RESISTANCE-COUPLED AMPLIFIER CHART, Type 6R7.

^o With shell connected to cathode. Values are approximate.

12SW7



12SW7

DUPLEX-DIODE TRIODE

DIODE UNITS - Two

The two diode plates are placed around a cathode, the sleeve of which is common to the triode unit. Each diode plate has its own base pin. Diode curves in the front of the RECEIVING TUBE SECTION apply to the 12SW7.

*Additional curves applying to the 12SW7
are shown under Types 6R7, and 6SR7*