



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:^o

Grid to Plate	2.4	$\mu\mu\text{f}$
Grid to Cathode	3.0	$\mu\mu\text{f}$
Plate to Cathode	2.8	$\mu\mu\text{f}$

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

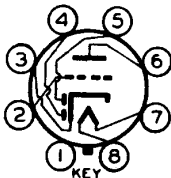
Pin 5 - Diode Plate

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.

JUNE 20, 1946

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

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 show. under Types 6R7, and 6SR7*

*CURVES UNDER TYPE 26C6
ALSO APPLY TO THE 12SW7*

JUNE 20, 1946

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA