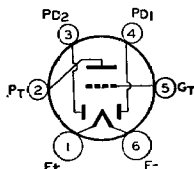


RCA-1B5/25S

DUPLEX-DIODE TRIODE



The 1B5/25S is a filament type of tube containing *two diodes* and a *triode* in a single bulb. It is recommended for use as a combined detector, amplifier, and automatic-volume-control tube in battery-operated receivers. For diode-detector considerations, refer to page 26.

CHARACTERISTICS

FILAMENT VOLTAGE (D. C.)	2.0	Volts
FILAMENT CURRENT	0.06	Ampere
GRID-TRIODE PLATE CAPACITANCE	3.6	μmf
GRID-FILAMENT CAPACITANCE	1.6	μmf
TRIODE PLATE-FILAMENT CAPACITANCE	1.9	μmf
BULB		ST-12
BASE		Small 6-Pin

Triode Unit—As Class A₁ Amplifier

PLATE VOLTAGE	135 max.	Volts
GRID VOLTAGE	-3	Volts
PLATE CURRENT	0.8	Milliamperes
PLATE RESISTANCE	35000	Ohms
AMPLIFICATION FACTOR	20	
TRANSCONDUCTANCE	575	Micromhos

Diode Units

The two diodes and the triode are independent of each other except for the common filament. Diode plate No. 1 is located at the negative end of the filament; diode plate No. 2 is located at the positive end. Because of this arrangement, diode plate No. 1, when the diodes are used for different purposes, should be used for detection to avoid signal delay effects. Operation curves for the diode units are given under type 6B7.

INSTALLATION AND APPLICATION

The base pins of the 1B5/25S require the use of a standard six-contact socket which should be installed to hold the tube in a vertical position.

For filament operation and shielding, refer to type 1A6.

The 1B5/25S is similar in application to the type 6R7.

