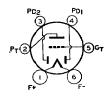


RCA-1B5/25S

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	uuf
GRID-FILAMENT CAPACITANCE	1.6	μμf μμf ST-12
TRIODE PLATE-FILAMENT CAPACITANCE	1.9	$\mu\mu$ f
Bulb		
Base		Small 6-Pin
Triode Unit—As Class A ₁ Ampli	fier	
PLATE VOLTAGE	135 m	ax. Volts

PLATE VOLTAGE	_	Volts Volts
PLATE CURRENT PLATE RESISTANCE	0.8	Milliampere Ohms
Amplification Factor Transconductance	20	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.

