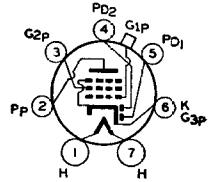


# RCA-2B7

## DUPLEX-DIODE PENTODE



The 2B7 is a heater type of tube consisting of two diodes and a pentode in a single bulb. It is recommended for service as a combined detector, amplifier (radio-frequency, intermediate-frequency or audio-frequency), and automatic-volume-control tube in radio receivers. The 2B7 is intended especially for use in a-c receivers having 2.5-volt heater supply. For diode-detector considerations, refer to page 26.

### CHARACTERISTICS

HEATER VOLTAGE (A. C. or D. C.)	2.5
HEATER CURRENT	0.8
BULB	
CAP	
BASE	

Volts  
Ampere  
ST-12  
Small Metal  
Small 7-Pin

Other characteristics of this type are the same as for type 6B7.

### Diode Units

Two diode plates are placed around a cathode, the sleeve of which is common to the pentode unit. Each diode plate has its own base pin. Operation curves for the diode units are given under type 6B7.

### INSTALLATION AND APPLICATION

The base pins of the 2B7 fit the seven-contact (0.75-inch pin-circle diameter) socket which may be installed to hold the tube in any position.

For heater operation and cathode connection, refer to type 2A5.

Complete shielding of detector circuits employing the 2B7 is generally necessary to prevent r-f or i-f coupling between the diode circuits and the circuits of other stages.

Refer to APPLICATION on type 6B8. Typical duplex-diode pentode circuits are shown under type 6B7.

