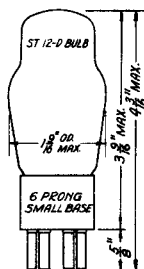
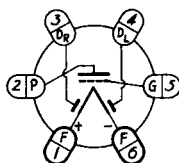


DUO-DIODE TRIODE
DETECTOR AMPLIFIER
Filament Type Glass Bulb



The 1B5/25S is a duo-diode triode type amplifier tube designed for service as a combined diode detector, AVC rectifier and audio frequency amplifier in battery operated receivers. The ratings and electrical characteristics are identical with those of the type 1H6G.



BOTTOM VIEW OF SOCKET

RATINGS

Filament Voltage	2.0 d-c	volts
Filament Current	0.060	amp
Maximum Plate Voltage	135	volts

DIRECT INTERELECTRODE CAPACITANCES - TRIODE SECTION

Grid to Plate	3.6	μmf
Input	2.0	μmf
Output	3	μmf

AMPLIFIER - CLASS A - TRIODE SECTION

Plate Voltage	135	volts
Grid Bias	-3	volts
Amplification Factor	20	
Plate Resistance	35000	ohms
Transconductance	575	μmhos
Plate Current	0.8	ma

DIODE SECTION

The two diode units are independent of each other and of the triode section except for the common filament. The diodes may be used as a half-wave or as a full-wave rectifier; or one diode may be used as a half-wave rectifier for detection, and the other diode used as a rectifier to obtain delayed AVO voltage.

If only one diode plate is used as an audio rectifier, D_L on pin 4 should be used because D_L is near the negative end of the filament and current will flow to this plate with zero signal when returned to the negative end of the filament.

