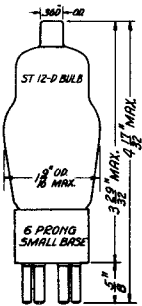
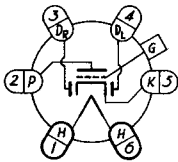


DUO-DIODE TRIODE
DETECTOR AMPLIFIER

Heater Type Glass Bulb



The 55 is a duo-diode triode type amplifier tube designed for service as a combined diode detector, AVC rectifier and audio frequency amplifier in a-c operated receivers.



BOTTOM VIEW OF SOCKET

RATINGS

Heater Voltage (a-c or d-c)	2.5	volts
Heater Current	1.0	amp
Maximum Plate Voltage	250	volts

DIRECT INTERELECTRODE CAPACITANCES - TRIODE SECTION

Grid to Plate	1.7	μ f
Input	2.0	μ f
Output	3.5	μ f

AMPLIFIER - CLASS A - TRIODE SECTION

Plate Voltage	135	180	250	volts
Grid Bias	-10.5	-13.5	-20	volts
Amplification Factor	8.3	8.3	8.3	
Plate Resistance	11000	8500	7500	ohms
Transconductance	750	975	1100	μ mhos
Plate Current	3.7	6	8	ma
Load Resistance	25000	20000	20000	ohms
Power Output	75	160	300	mw

DIODE SECTION

The two diode units are independent of each other and of the triode section except for the common cathode. 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 AVC voltage.

For characteristic curves refer to the type 85. The characteristics of the 55 are the same as those of the 85 except for the heater rating.