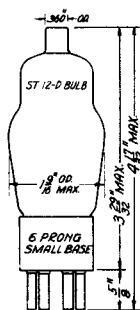
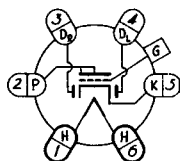


DUO-DIODE TRIODE
DETECTOR AMPLIFIER
Heater Type Glass Bulb



The 85 is a duo-diode triode type amplifier tube designed for service as a combined diode detector, AVC rectifier, and audio frequency amplifier in storage battery or a-c operated receivers. The ratings and electrical characteristics are identical with those of the type 6V7G.



BOTTOM VIEW OF SOCKET

RATINGS

Heater Voltage (a-c or d-c)	6.3	volts
Heater Current	0.3	amp
Maximum Plate Voltage	250	volts

DIRECT INTERELECTRODE CAPACITANCES - TRIODE SECTION

Grid to Plate	1.7	μf
Input	2.0	μf
Output	3.5	μf

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	μmhos
Plate Current	3.7	6	8	ma
Load Resistance	25000	20000	20000	ohms
Power Output	75	160	350	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.

The voltage between heater and cathode should be kept as low as possible where they are not directly connected.

