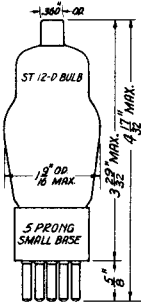
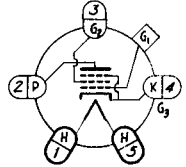


PENTODE
POWER AMPLIFIER
Heater Type Glass Bulb



The 38 is a pentode type power amplifier tube designed for service in the output stage of storage battery or a-c operated receivers.



BOTTOM VIEW OF SOCKET

RATINGS

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

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	0.3	μ uf
Input	3.5	μ uf
Output	7.5	μ uf

AMPLIFIER - CLASS A

Plate Voltage	100	135	180	250	volts
Screen Voltage	100	135	180	250	volts
Grid Bias*	-9	-13.5	-18	-25	volts
Amplification Factor	120	120	120	120	
Plate Resistance	0.14	0.13	0.115	0.1	megohm
Transconductance	875	925	1050	1200	micromhos
Plate Current	7	9	14	22	ma
Screen Current	1.2	1.5	2.4	3.8	ma
Load Resistance	15000	13500	11600	10000	ohms
Total Harmonics	8	10	8	8	percent
Power Output	0.27	0.55	1	2.5	watts

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

*The d-c resistance in the grid circuit should not exceed 1 megohm.

