TECHNICAL DATA

#170

from RMA release #170, March 31, 1939

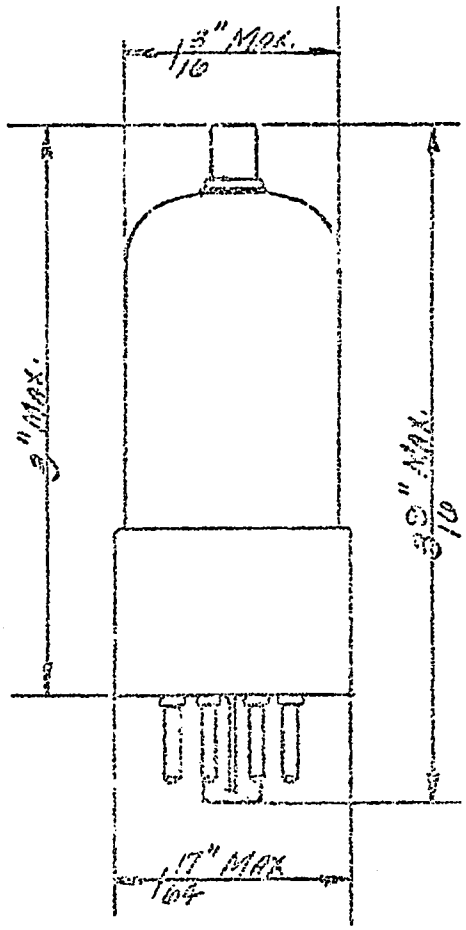
ARCTURUS

76

MAR 31 1939

TYPE 25D8GT MIDGET

DIODE - TRIODE - PENTODE



Heater Voltage	25.0	Volts
Heater Current	0.15	Ampere

PENTODE SECTION

Plate Voltage	100	Volts
Screen Grid Voltage	100	Volts
Control Grid Voltage	-3	Volts
Plate Current	8.5	m.a.
Screen Grid Current	2.7	m.a.
Plate Resistance	200,000	ohms
Transconductance	1900	micromhos
Control Grid Voltage for Transconductance = 2 umhos	-35	Volts

TRIODE SECTION

Plate Voltage	100	Volts
Grid Voltage	-1	Volt
Plate Current	0.5	m.a.
Plate Resistance	91,000	ohms
Transconductance	1100	micromhos
Amplification Factor	100	

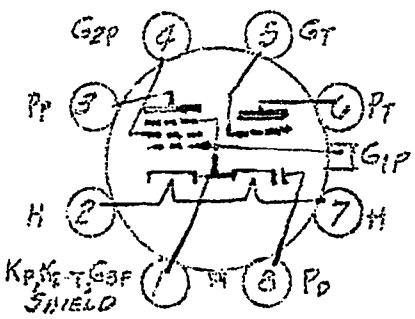
DIODE

A single plate of conventional design is provided around a cathode which is common to the Triode.

DIRECT INTERELECTRODE CAPACITANCES

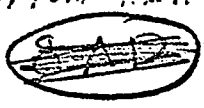
Pentode G1 to plate	.015	mmf (Max)
Pentode Input	5.2	mmf
Pentode Output	10.0	mmf
Triode Grid to plate	2.5	mmf
Triode Grid to cathode	3.7	mmf
Triode Plate to cathode	4.5	mmf
Pentode G1 to triode grid	.01	mmf (Max)
Pentode Plate to triode grid	.10	mmf (Max)
Pentode G1 to triode plate	.02	mmf (Max)

PIN ARRANGEMENT



BOTTOM VIEW

8AF



APPLICATION

Type 25D8GT has been designed primarily for small AC-DC receivers wherein very limited space is available. The pentode section may be used as a conventional RF or IF amplifier and the diode-triode section as detector and AF amplifier.

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