ARCTURUS

TYPE 25DSGT MIDGET
DIODE - TRIODE - PENTODE

Heat Voltage 25.0 Volts
Heat Current 0.15 Amperes

PENTODE SECTION
Plate Voltage 100 Volts
Screen Grid Voltage 100 Volts
Control Grid Voltage -3 Volts
Plate Current 3.5 ma.
Screen Grid Current 2.7 ma.
Plate Resistance 200,000 ohms
Transconductance 19 micromhos
Control Grid Voltage for Transconductance = 2 volts

TRIODE SECTION
Plate Voltage 100 Volts
Grid Voltage -1 Volt
Plate Current 0.5 ma.
Plate Resistance 61,000 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 uf (Max)
Pentode Input 3.2 uf
Pentode Output 10.0 uf
Triode Grid to plate 2.5 uf
Triode Grid to cathode 5.7 uf
Triode Plate to cathode 4.5 uf
Pentode G1 to triode grid .11 uf (Max)
Pentode Plate to triode grid .10 uf (Max)
Pentode G1 to triode plate .02 uf (Max)

APPLICATION
Type 25DSGT 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.

from RMA release #170, March 31, 1939

TECHNICAL DATA