THE 12AE6A IS A COMBINED DOUBLE DETECTOR DIODE AND MEDIUM MU TRIODE WITH A COMMON UNIPOTENTIAL CATHODE IN THE 7 PIN MINIATURE CONSTRUCTION. THE TRIODE SECTION IS INTENDED FOR USE AS AN AF VOLTAGE AMPLIFIER INTO A LOW IMPEDANCE LOAD WHERE THE HEATER AND PLATE POTENTIALS ARE OBTAINED DIRECTLY FROM AN AUTOMOTIVE BATTERY.

HEATER CHARACTERISTICS AND RATINGS
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS
HEATER SUPPLY LIMITS:
APPLIED VOLTAGE
MAXIMUM HEATER-CATHODE VOLTAGE:

MAXIMUM RATINGS
DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE
CATHODE CURRENT
AVERAGE DIODE CURRENT
GRID CIRCUIT RESISTANCE

CONTINUED ON FOLLOWING PAGE
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TYPICAL OPERATING CHARACTERISTICS
CLASS A1 AMPLIFIER - TRIODE UNIT

HEATER POTENTIAL  12.6  12.6  VOLTS
PLATE POTENTIAL  12.6  12.6  VOLTS
GRID POTENTIAL  0  -----  VOLTS
GRID RESISTOR  0  10  MEGOHMS
PLATE CURRENT  1.0  0.32  MA.
TRANSCONDUTANCE  1300  715  µMHO
PLATE RESISTANCE  13  20  KILOHMS
AMPLIFIER FACTOR  16.7  14.3
DIODE UNITS - TWO
AVERAGE DIODE CURRENT WITH 10 VOLTS
APPLIED (EACH DIODE)  2.0  MA.

AVERAGE PLATE CHARACTERISTICS

PLATE MILLIAMPERES
0  0.5  1.0  1.5  2.0

PLATE VOLTS
0  5  10  15  20  25  30

L = 0.01