TUNG-SOL

DOUBLE-DIODE TRIODE

MINIATURE TYPE

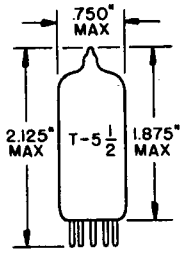
FOR

AF VOLTAGE AMPLIFIER

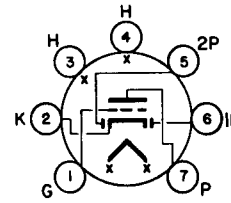
SERVICE

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2



BOTTOM VIEW
BASING DIAGRAM
JEDEC 7BT

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 RATI NGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	12.6	VOLTS	150	MA.
HEATER SUPPLY LIMITS:				
APPLIED VOLTAGE			10 TO 15.9	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			±30	VOLTS

MAXIMUM RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	30	VOLTS
CATHODE CURRENT	20	MA.
AVERAGE DIODE CURRENT	1	MA.
GRID CIRCUIT RESISTANCE	10	MEGOHMS

CONTINUED ON FOLLOWING PAGE

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TUNG-SOL

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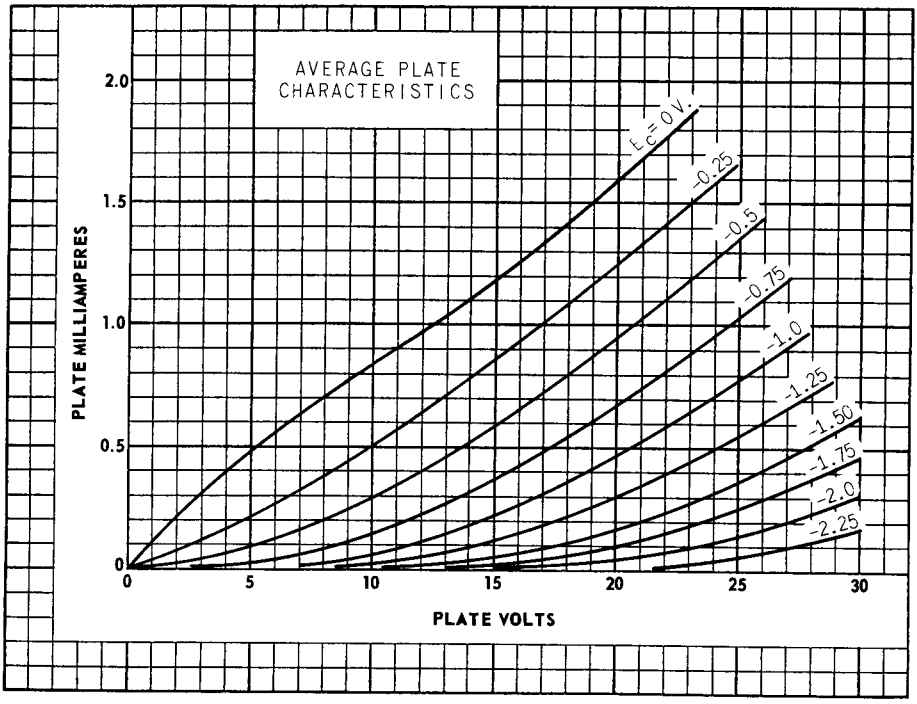
TYPICAL OPERATING CHARACTERISTICS

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.
TRANSCONDUCTANCE	1,300	715	μMHOS
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.