DOUBLE-DIODE TRIODE

MINIATURE TYPE



GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER 12.6 VOLTS 0.15 AMP. AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW MINIATURE BUTTON 7 PIN BASE 78T

WITHOUT

THE 12AE6 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 WHERE THE HEATER AND PLATE POTENTIALS ARE OBTAINED DIRECTLY FROM AN AUTOMOTIVE BATTERY.

DIRECT INTERELECTRODE CAPACITANCES

	SHIELD	
GRID TO PLATE: (G TO P)	2.0	$\mu\mu$ f
INPUT: G TO (H+K)	1.8	$\mu\mu$ f
OUTPUT: P TO (H+K)	1.1	µµ f
DIODE TO DIODE	.9	μμ f

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE*	12.6	VOLTS
MAXIMUM HEATERCATHODE VOLTAGE	±30	VOLTS
MAXIMUM PLATE VOLTAGE	30	VOLTS
MAXIMUM CATHODE CURRENT	20	MA.
MAXIMUM AVERAGE DIODE CURRENT	1	MA.
MAXIMUM GRID CIRCUIT RESISTANCE	10	MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A ₁ AM	MPLIFIER - TRIODE UNIT	
HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.15	AMP.
PLATE VOLTAGE	12 . 6	VOLTS
GRID VOLTAGE	0	VOLTS
PLATE CURRENT	750	μAMPS
PLATE RESISTANCE	15 000	онмѕ
TRANSCONDUCTANCE	1 000	μMHOS
AMPLIFICATION FACTOR	15	·

THIS TUBE IS INTENDED TO BE USED IN AUTOMOTIVE SERVICE FROM A NOMINAL 12 VOLT BATTERY SOURCE. THE MEATER IS THEREFORE DESIGNED TO OPERATE OVER THE 10.0 TO 15.9 VOLTAGE RANGE ENCOUNTERED IN THIS SERVICE. THE MAXIMUM RATINGS OF THE TUBE PROVIDE FOR AN ADEQUATE SAFETY FACTOR SUCH THAT THE TUBE WILL WITHSTAND THE WIDE VARIATION IN SUPPLY VOLTAGES.

CONTINUED ON FOLLOWING PAGE

- TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS - CONT'D DIODE UNITS - TWO

AVERAGE DIODE CURRENT WITH

10 VOLTS APPLIED (EACH DIODE)

2.0 MA.

RESISTANCE COUPLED AMPLIFIER - TRIODE UNIT

PLATE SUPPLY VOLTAGE	14.4	VOLTS
CONTROL GRID VOLTAGE PLATE LOAD RESISTOR	U70, 000	VOLTS
CONTROL GRID RESISTOR	470 000 2.2	OHMS MEGOHMS
INPUT CONDENSER	0.01	μf
OUTPUT CONDENSER	0.01	μf
GRID RESISTOR OF FOLLOWING STAGE	2.2	MEGOHMS
SIGNAL SOURCE IMPEDANCE (MAX.)	1 000	OHMS
VOLTAGE GAIN AT 400 CPS**	10	

^{**}MEASURED AT AN OUTPUT VOLTAGE OF 1 VOLT RMS.



