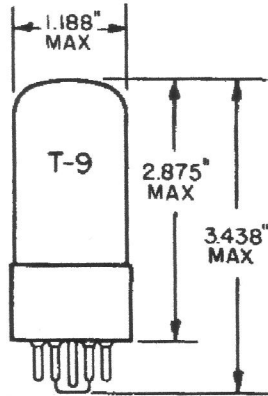


TUNG-SOL

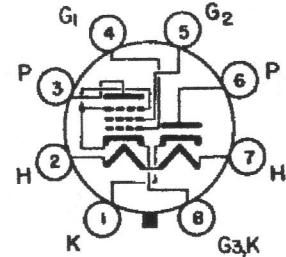
DIODE-BEAM PENTODE



GLASS BULB
INTERMEDIATE SHELL
8 PIN OCTAL B8-6
OUTLINE DRAWING
JEDEC 9-15

FOR
POWER RECTIFIER AND
AUDIO OUTPUT APPLICATIONS

COATED UNIPOTENTIAL CATHODES
ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 8A0

THE 117L7/M7GT COMBINES A HALF-WAVE RECTIFIER AND A BEAM POWER AMPLIFIER IN THE SAME ENVELOPE. IT IS DESIGNED FOR AC DC SERVICE FROM A 117 VOLT LINE IN THREE WAY PORTABLE RECEIVERS. IT HAS FOUND USE IN A NUMBER OF OTHER APPLICATIONS.

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES-SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	117	VOLTS	90	MA.
LIMITS OF SUPPLIED VOLTAGE			117±12	VOLTS
MAXIMUM DC HEATER-CATHODE VOLTAGE			175	VOLTS

MAXIMUM RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

DIODE UNIT

AC PLATE VOLTAGE, RMS	117	VOLTS
PEAK INVERSE VOLTAGE	350	VOLTS
STEADY-STATE PEAK PLATE CURRENT	450	MA.

PENTODE UNIT

PLATE VOLTAGE	117	VOLTS
GRID 2 VOLTAGE	117	VOLTS
PLATE DISSIPATION	6.0	WATTS
GRID 2 DISSIPATION	1.0	WATTS

CONTINUED ON FOLLOWING PAGE

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

CHARACTERISTICS AND OPERATING CONDITIONS

DIODE UNIT

TUBE VOLTAGE DROP:		
MEASURED WITH APPLIED DC AT 150 MA PLATE CURRENT	16	VOLTS

HALF-WAVE POWER RECTIFIER

AC PLATE VOLTAGE, RMS	117	VOLTS
DC OUTPUT CURRENT	75	MA.
MINIMUM TOTAL EFFECTIVE PLATE SUPPLY IMPEDANCE	15	OHMS

PENTODE UNIT

CLASS A1 AUDIO POWER AMPLIFIER

PLATE VOLTAGE	105	VOLTS
GRID 2 VOLTAGE	105	VOLTS
GRID VOLTAGE	-5.2	VOLTS
PEAK AF GRID VOLTAGE	5.2	VOLTS
ZERO-SIGNAL PLATE CURRENT	43	MA.
MAXIMUM-SIGNAL PLATE CURRENT	43	MA.
ZERO-SIGNAL GRID 2 CURRENT (NOMINAL)	4	MA.
MAXIMUM-SIGNAL GRID 2 CURRENT (NOMINAL)	5.5	MA.
PLATE RESISTANCE (APPROX.)	17,000	OHMS
TRANSCONDUCTANCE	5,300	μ MHOS
LOAD RESISTANCE	4,000	OHMS
TOTAL HARMONIC DISTORTION	5.0	PERCENT
MAXIMUM-SIGNAL POWER OUTPUT	0.85	WATT

