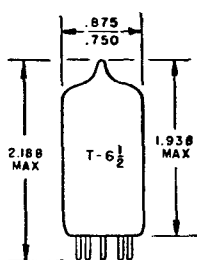


TUNG-SOL

TRIODE-PENTODE

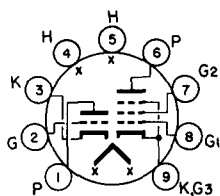
MINIATURE TYPE



GLASS BULB
SMALL BUTTON
9 PIN BASE E9-1
OUTLINE DRAWING
JEDEC 6-2

SHARP CUTOFF PENTODE AND
MEDIUM MU TRIODE
FOR
MOBILE APPLICATIONS

COATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 9DA

THE 7258 CONTAINS A MEDIUM MU TRIODE AND A SHARP CUTOFF PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. THE TRIODE SECTION MAY BE USED AS A LOW FREQUENCY OSCILLATOR OR GENERAL PURPOSE AMPLIFIER, THE PENTODE SECTION AS AN RF, IF, OR REACTANCE TUBE. IT IS DESIGNED FOR USE OVER A WIDE RANGE OF HEATER VOLTAGES NORMALLY ENCOUNTERED IN MOBILE APPLICATIONS. EXCEPT FOR HEATER CHARACTERISTICS, TYPE 7258 IS SIMILAR TO TYPE 6AN8.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

PENTODE

GRID 1 TO PLATE: G1 TO P	MAX.	0.04	pf
INPUT: G1 TO (H + KP + G2 + G3 + I.S.)		7.0	pf
OUTPUT: P TO (H + KP + G2 + G3 + I.S.)		2.4	pf

TRIODE

GRID TO PLATE: G TO P		1.5	pf
INPUT: G TO (H + KT + KP + I.S.)		2.0	pf
OUTPUT: P TO (H + KT + KP + I.S.)		1.5	pf

COUPLING

TRIODE GRID TO PENTODE PLATE	MAX.	0.02	pf
PENTODE GRID TO TRIODE PLATE	MAX.	0.02	pf
PENTODE PLATE TO TRIODE PLATE	MAX.	0.15	pf

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	13.5	VOLTS	210	MA.
LIMITS OF APPLIED VOLTAGE			13.5±1.5	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:				
HEATER NEGATIVE WITH RESPECT TO CATHODE			200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE				
DC			100	VOLTS
TOTAL DC AND PEAK			200	VOLTS

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

	TRIODE SECTION	PENTODE SECTION	
PLATE VOLTAGE	330	330	VOLTS
GRID 2 SUPPLY VOLTAGE		330	VOLTS
GRID 2 VOLTAGE		See Rating Chart	
POSITIVE GRID 1 VOLTAGE	0	0	VOLTS
PLATE DISSIPATION	2.8	2.3	WATTS
GRID 2 DISSIPATION		0.55	WATTS
GRID 1 CIRCUIT RESISTANCE			
FIXED BIAS	0.5	0.25	MEGOHM
CATHODE BIAS	1.0	1.0	MEGOHM

AVERAGE CHARACTERISTICS

	TRIODE SECTION	PENTODE SECTION	
PLATE VOLTAGE	150	125	VOLTS
GRID 2 VOLTAGE	----	125	VOLTS
GRID 1 VOLTAGE	-3		VOLTS
CATHODE BIAS RESISTOR		56	OHMS
PLATE CURRENT	15	12	MA.
GRID 2 CURRENT	----	3.8	MA.
TRANSCONDUCTANCE	4,500	7,800	μMHOS
AMPLIFICATION FACTOR	21		
PLATE RESISTANCE (APPROX.)	4,700	170,000	OHMS
GRID 1 VOLTAGE FOR $I_b = 20 \mu A$, (APPROX.)	-17	-6	VOLTS
PLATE CURRENT AT $E_{c1} = -3$ VDC, $R_k = 0$		1.6	MA.