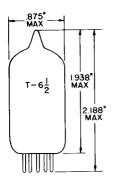
TUNG-SOL -

TRIODE PENTODE MINIATURE TYPE

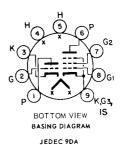


COATED UNIPOTENTIAL CATHODE

FOR GENERAL PURPOSE

APPLICATIONS IN TV RECEIVERS

ANY MOUNTING POSITION



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

THE 6ANS IS A MEDIUM MU TRIODE AND A SHARP CUTOFF PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. THE PENTODE SECTION MAY BE USED AS AN IF AMPLIFIER OR A REACTANCE TUBE WHILE THE TRIODE SECTION IS WELL SUITED FOR USE IN LOW-FREQUENCY OSCILLATOR, SYNC CLIPPER, SYNC SEPARATOR AND PHASE SPLITTER CIRCUITS.

DIRECT INTERELECTRODE CAPACITANCES

TRIODE UNIT:				
GRID TO PLATE: (TG TO TP)			1.5	рf
INPUT: TG TO (H+TK)			2.0	pf
OUTPUT: TP TO (H+TK)			0.26	pf
PENTODE UNIT:				
GRID 1 TO PLATE: (PG1 TO PP) MAX.	GRID 1 TO PLATE: (PG1 TO PP) MAX.		0.04	pf
INPUT: PG1 TO (H+PK+PG2+PG3+I.S.)			7.0	ρf
OUTPUT: PP TO (H+PK+PG2+PG3+1.S.)		-	2.4	pf
COUPLING:				
TRIODE GRID TO PENTODE PLATE: (TG TO PP) MAX.			0.02	pf
PENTODE GRID 1 TO TRIODE PLATE: (PG1 TO TP) MAX.		-	0.02	pf
PENTODE PLATE TO TRIODE PLATE: (Fp TO TP)MAX.			0.15	pf
	RACTERISTICS AND RAT			
AVERAGE CHARACTERISTICS	6.3 VOLTS		450	MA.
HEATER SUPPLY LIMITS: VOLTAGE OPERATION MAXIMUM HEATER-CATHODE VOLTAGE: HEATER NEGATIVE WITH RESPECT	TO CATHODE		6.3±0.6	VOLTS
TOTAL DC AND PEAK		200	VOLTS	
HEATER POSITIVE WITH RESPECT 1	O CATHODE			
DC		100	VOL1S	
TOTAL DC AND PEAK			200	VOLTS
	IED ON FOLLOWING PAGE			

- TUNG-SOL ----

→ MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

	TRIODE	PENTODE	
PLATE VOLTAGE	330	330	VOLTS
GRID 2 VOLTAGE		SEE RATING CHART	
GRID 2 SUPPLY VOLTAGE		330	VOLTS
PLATE DISSIPATION	2.8	2.3	WATTS
GRID 2 DISSIPATION		0.55	WATTS
POSITIVE DC GRID 1 VOLTAGE GRID 1 CIRCUIT RESISTANCE: B	0	0	VOLTS
FOR CATHODE-BIAS OPERATION	1.0	1.0	MEGOHM
FOR FIXED-BIAS OPERATION	0.5	0.25	MEGOHM

- TYPICAL OPERATING CHARACTERISTICS

CLASS A AMPLIFIER

	TRIODE	PENTODE	
PLATE SUPPLY VOLTAGE	150	125	VOL TS
GRID 2 SUPPLY VOLTAGE		125	VOLTS
GRID 1 VOLTAGE	-3	0	VOL TS
CATHODE BIAS RESISTOR	0	56	OHMS
AMPLIFICATION FACTOR	21		
TRANSCONDUCTANCE	4500	7800	µ MHOS
PLATE CURRENT	15	12	MA.
PLATE RESISTANCE (APPROX)	4700	170,000	OHMS
GRID 2 CURRENT		3.8	MA.
GRID 1 VOLTAGE (APPROX.) FOR 1b = 20 \(\mu\)A	-17		VOLTS
PLATE CURRENT AT Ecl=-3 V., Rk=0		1.6	MA.
GRID 1 VOLTAGE (APPROX.) FOR $1b=20 \mu A$.		-6	VOLTS

THE 6AN8A CURVES ALSO APPLY FOR THE 6AN8.

--- INDICATES A CHANGE.

B IF EITHER UNIT IS OPERATING ATMAXIMUM RATED CONDITIONS, GRID #1 CIMCUIT RESISTANCES FOR BOTH UNITS SHOULD NOT EXCEED THE STATED VALUES.