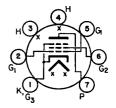
TUMB-SOL -

POWER PENTODE MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE

HIGH POWER SENSITIVITY FOR SERIES STRING RECEIVERS



BOTTOM VIEW

BASING DIAGRAM JEDEC 7CV

GLASS BULB MINIATURE BUTTON 7 PIN BASE E7-1 OUTLINE DRAWING JEDEC 5-3

THE 50FA5 IS A POWER PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR LOW HEAT DISSIPATION THROUGH USE OF A LOW CURRENT HEATER. HEATER WARM-UP TIME (IN SERIES STRING APPLICATIONS) IS CONTROLLED FOR IMPROVED RELIABILITY.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE	0.28	рf
INPUT: G1 TO (K+G3+G2+H)	11	рf
OUTPUT: P TO (K+G3+G2+H)	8.5	рf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE ETA STANDARD RS-239

AVERAGE CHARACTERISTICS	50 VOLTS	100 A	MA.
HEATER SUPPLY LIMITS: CURRENT OPERATION		100±6 ^B	MA.
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT T TOTAL DC AND PEAK	O CATHODE	200	VOLTS
HEATER POSITIVE WITH RESPECT T	O CATHODE		
DC		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS
HEATER WARM-UP TIME A		20	SECONDS

MAXIMUM RATINGS DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

CLASS AT AMPLIFIER

OLAGO AT AMELITER		
PLATE VOLTAGE	150	VOLTS
GRID #2 VOLTAGE	130	VOLTS
PLATE DISSIPATION	5.2	WATTS
GRID #2 DISSIPATION	1.1	WATTS
GRID #1 CIRCUIT RESISTANCE:		
FIXED BIAS	0.1	MEGOHM
CATHODE BLAS	0.5	MEGOHM

CONTINUED ON FOLLOWING PAGE

-- TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CHARACTERISTICS

PLATE VOLTAGE	110	VOL TS
GRID #2 VOLTAGE	110	VOLTS
GRID #1 VOLTAGE	-7.5	VOLTS
PEAK AF GRID #1 VOLTAGE	7.5	VOLTS
ZERO-SIGNAL PLATE CURRENT	40	MA.
MAX.—SIGNAL PLATE CURRENT	41	MA.
ZERO-SIGNAL GRID #2 CURRENT	3	MA.
MAXSIGNAL GRID #2 CURRENT	7	MA.
TRANSCONDUCTANCE	580C	µмноs
PLATE RESISTANCE (APPROX.)	13,000	OHMS
LOAD RESISTANCE	2500	OHMS
MAXSIGNAL POWER OUTPUT	1.5	WATTS
TOTAL HARMONIC DISTORTION	10	PERCENT

A MEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.