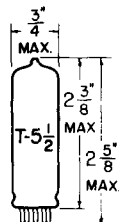


TUNG-SOL

POWER PENTODE
MINIATURE TYPE

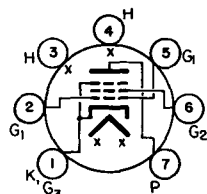
SMALL-BUTTON
MINIATURE
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-3
GLASS BULB

COATED UNIPOTENTIAL CATHODE

AUDIO OUTPUT AMPLIFIER

IN AC/DC RECEIVERS

ANY MOUNTING POSITION



BASING DIAGRAM
JEDEC 7CV
BOTTOM VIEW

THE 50FK5 IS A POWER PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE IN AC/DC RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE	0.65	pf
GRID #1 TO CATHODE & GRID #3, HEATER & GRID #2	17	pf
PLATE TO CATHODE & GRID #3, HEATER & GRID #2	9	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	50 VOLTS	100	MA.
HEATER SUPPLY LIMITS:			
CURRENT OPERATION		100±6	MA.
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE		200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		200 ^A	

^ATHE DC COMPONENT MUST NOT EXCEED 100 VOLTS.

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	CLASS A ₁ AMPLIFIER	150	VOLTS
GRID #2 (SCREEN-GRID) VOLTAGE:		130	VOLTS
GRID #1 (CONTROL-GRID) VOLTAGE:			
POSITIVE BIAS VALUE		0	VOLTS
PLATE DISSIPATION		5	WATTS
GRID #2 INPUT		1.75	WATTS
BULB TEMPERATURE (AT HOTTEST POINT)		225	°C

MAXIMUM CIRCUIT VALUES

GRID #1 CIRCUIT RESISTANCE:			
FOR FIXED-BIAS OPERATION		0.1	MEGOHM
FOR CATHODE-BIAS OPERATION		0.5	MEGOHM

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CHARACTERISTICS

PLATE-SUPPLY VOLTAGE	110	VOLTS
GRID #2 SUPPLY VOLTAGE	115	VOLTS
CATHODE RESISTOR	62	OHMS
PEAK AF GRID #1 VOLTAGE	3	VOLTS
ZERO-SIGNAL PLATE CURRENT	32	MA.
MAX.-SIGNAL PLATE CURRENT	32	MA.
ZERO-SIGNAL GRID #2 CURRENT	8.5	MA.
MAX.-SIGNAL GRID #2 CURRENT	12	MA.
PLATE RESISTANCE (APPROX.)	14000	OHMS
TRANSCONDUCTANCE	12800	μMHOS
LOAD RESISTANCE	3000	OHMS
TOTAL HARMONIC DISTORTION	8	PERCENT
MAX.-SIGNAL POWER OUTPUT	1.2	WATTS