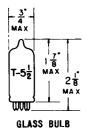
TUMB-SOL -

TRIODE

MINIATURE TYPE

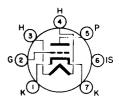


COATED UNIPOTENTIAL CATHODE

HEATER

6.3^B VOLTS 0.18 AMP.

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM JEDEC 7FP

MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2

THE 6F05A IS A SEMI-REMOTE CUTOFF TRIODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS A VHF AND RF AMPLIFIER AT A B+ OF 135 VOLTS. EXCEPT FOR HEATER RATINGS AND HEATER WARM-UP TIME, THE 6F05A IS IDENTICAL TO THE 2F05A AND THE 3F05A.

DIRECT INTERELECTRODE CAPACITANCES

GRID TO PLATE	0.52	рf
INPUT: G TO (H+K+1.S.+E.S.)	5.0	рf
OUTPUT: P TO (H+K+1.S.+E.S.)	3.5	рf
HEATER TO CATHODE	2.5	рf

RATINGS INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM C

HEATER VOLTAGED	6.3±0.6	VOLTS
MAXIMUM PLATE VOLTAGE	200	VOLTS
MAXIMUM PLATE DISSIPATION	2.5	WATTS
MAXIMUM DC CATHODE CURRENT	22	MA.
MAXIMUM NEGATIVE GRID VOLTAGE	50	VOLTS
MAXIMUM GRID CIRCUIT RESISTANCE (SELF BIAS)	1.0	MEGOHMS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	100	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	100	VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

<u> -</u>		
HEATER VOLTAGE ^D	6.3±0.6	VOLTS
HEATER CURRENT ^D	0.18	AMP.
PLATE VOLTAGE	135	VOLTS
GRID VOLTAGE	-1.2	VOLTS
PLATE CURRENT	8.9	MA.
TRANSCONDUCTANCE	12000	μ MHOS
AMPLIFICATION FACTOR	74	
PLATE RESISTANCE (APPROX.)	6300	OHMS
Ec for Ib = $100 \mu A$ (APPROX.)	-4.5	VOLTS

CONTINUED ON FOLLOWING PAGE

--- TUNB-20L -

CONTINUED FROM PRECEDING PAGE

NOTES

- ^BFOR SERIES/PARALLEL OPERATION OF HEATERS, EQUIPMENT SHOULD BE DESIGNED THAT AT NORMAL SUPPLY VOLTAGE BOGEY TUBES WILL OPERATE AT THIS VALUE OF HEATER/CURRENT VOLTAGE.
- C.
 DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE COMDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEBILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT ITE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING COMDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION EQUIPMENT CONTROL ADJUSTMENT. LOAD VARIATION, SIGNAL VARIATION, AND FNVIRONMENTAL CONDITIONS.
- $^{\mbox{\scriptsize D}}_{\mbox{\scriptsize HEATER}}$ voltage supply variations shall be restricted to maintain heater voltage/current within the specified Tolerance.