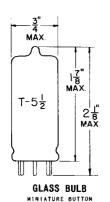
TRIODE DOUBLE DIODE

MINIATURE TYPE



7 PIN BASE E7-1

OUTLINE DRAWING JEDEC 5-2 COATED UNIPOTENTIAL CATHODE

HEATER

18 VOLTS 8 0.10 AMP.

SERIES OPERATION

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM JEDEC 78T

THE 18GE6A IS A HIGH MU TRIODE DOUBLE DIODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT FEATURES 100 MILLIAMPERE HEATER AND IS DESIGNED FOR DETECTOR-AMPLIFIER APPLICATIONS IN AC/DC TYPE RADIO RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES WITHOUT EXTERNAL SHIELD

IID TO PLATE

GRID TO PLATE		1.8	рf
INPUT: G TO (H+K)		2.4	pf
ОUТРUТ: Р ТО (H+к) (0.2	рf
GRID TO DIODE #2 PLATE	(MAX.)	0.2	рf

$\begin{array}{c} \textbf{RATINGS} \\ \textbf{Interpreted according to design maximum system}^{\textbf{A}} \end{array}$

HEATER CURRENT ^C	0.100±0.006	AMPS.
MAXIMUM PLATE VOLTAGE	150	VULTS
MAXIMUM PLATE DISSIPATION	0.5	WATT
MAXIMUM DIODE PLATE CURRENT, (EACH DIODE)	1.0	MA.
MAXIMUM HEATER-CATHODE VOLTAGE ^A	100	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	100	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		•
TOTAL DC AND PEAK	100	VOLTS
HEATER WARM-UP TIME*	20	SECONDS

A
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 CONDITIONS. THE DEVICE MAYERCTURER CHOOSES THESE
VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY 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 LIFE 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,
FOULPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS

^BFOR SERIES OPERATION OF HEATERS, EQUIPMENT SHOULD BE DESIGNED THAT AT NORWAL SUPPLY VOLTAGE BOGEY TUBES WILL OPERATE AT THIS VALUE OF HEATER CURRENT.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

PLATE VOLTAGE GRID VOLTAGE	100 -1	VOLTS VOLTS
PLATE CURRENT	1.0	MA.
PLATE RESISTANCE	40 000	OHMS
TRANSCONDUCTANCE	1 700	μ MHOS
AMPLIFICATION FACTOR	70	
AVERAGE DIODE CURRENT, EACH DIODE ^D WITH 10 VOLTS DC APPLIED	2.0	MA.

 C HEATER VOLTAGE SUPPLY VARIATIONS SHALL BE RESTRICTED TO MAINTAIN HEATER CURRENT WITHIN THE SPECIFIED VALUES.

DTEST CONDITION ONLY.

*HEATER 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 REATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

SIMILAR TYPE REFERENCE: Except for heater-warm-up time, the 18GE6A is identical to the 18GE6.