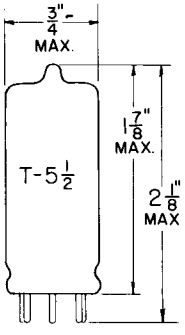
**TUNG-SOL**

# TRIODE DOUBLE DIODE

MINIATURE TYPE



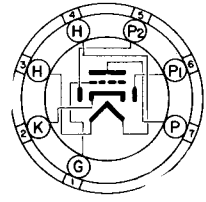

GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER

18 VOLTS 0.10 AMP.

ANY MOUNTING POSITION




**BOTTOM VIEW**

MINIATURE BUTTON
7 PIN BASE

7BT

THE 18GE6 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

| | | |
|---|---|---|
| GRID TO PLATE | 1.8 | μμf |
| INPUT: G TO (H + K) | 2.4 | μμf |
| OUTPUT: P TO (H + K) | 0.2 | μμf |
| GRID TO DIODE #2 PLATE (MAX.) | 0.2 | μμf |

## RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM[A]

| | | |
|---|---|---|
| HEATER VOLTAGE | 18 | VOLTS |
| MAXIMUM PLATE VOLTAGE | 150 | VOLTS |
| MAXIMUM PLATE DISSIPATION | 0.5 | WATT |
| MAXIMUM DIODE PLATE CURRENT, (EACH DIODE) | 1.0 | MA. |
| MAXIMUM HEATER-CATHODE VOLTAGE[A] | 100 | VOLTS |

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS $A_1$ AMPLIFIER

| | | |
|---|---|---|
| HEATER VOLTAGE | 18 | VOLTS |
| HEATER CURRENT | 0.10 | AMP. |
| PLATE VOLTAGE | 100 | VOLTS |
| GRID VOLTAGE | -1 | VOLTS |
| PLATE CURRENT | 1.0 | MA. |
| PLATE RESISTANCE | 40 000 | OHMS |
| TRANSCONDUCTANCE | 1 700 | μMHOS |
| AMPLIFICATION FACTOR | 70 | |
| AVERAGE DIODE CURRENT, EACH DIODE[B] WITH 10 VOLTS DC APPLIED | 2.0 | MA. |

[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 MANUFACTURER 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 CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

[B] TEST CONDITION ONLY.

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