

Twin Diode—High-Mu Triode

7-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

| | | |
|----------------------------------|----------|-------|
| Voltage (AC or DC) | 18 | volts |
| Current | 0.1 ± 6% | amp |
| Warm-up time (Average) | 20 | sec |

Direct Interelectrode Capacitances:

| | Without External Shield | With External Shield ^a | |
|---|-------------------------------|---|----|
| Triode grid to triode plate . . | 1.8 | 1.8 | μf |
| Triode grid to cathode and heater. | 2.4 | 2.4 | μf |
| Triode plate to cathode and heater. | 0.22 | 2 | μf |
| Plate of diode unit No.2 to triode grid. | 0.2 max. | 0.2 max. | μf |

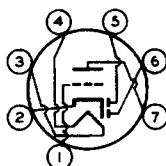
Characteristics, Class A₁ Amplifier (Triode Unit):

| | | |
|--------------------------------------|-------|-------|
| Plate Voltage | 100 | volts |
| Grid Voltage. | -1 | volt |
| Amplification Factor. | 100 | |
| Plate Resistance (Approx.) | 77000 | ohms |
| Transconductance. | 1300 | μmhos |
| Plate Current | 0.6 | ma |

Mechanical:

| | |
|--|---|
| Operating Position. | Any |
| Maximum Overall Length. | 2-1/8" |
| Maximum Seated Length | 1-7/8" |
| Length, Base Seat to Bulb Top (Excluding tip). | 1-1/2" ± 3/32" |
| Diameter. | 0.650" to 0.750" |
| Dimensional Outline | See <i>General Section</i> |
| Bulb. | T5-1/2 |
| Base. | Small-Button Miniature 7-Pin (JEDEC No. E7-1) |
| Basing Designation for BOTTOM VIEW. | 7BT |

- Pin 1—Grid of Triode Unit
- Pin 2—Cathode of Triode Unit and Diode Units No.1 and No.2
- Pin 3—Heater
- Pin 4—Heater



- Pin 5—Plate of Diode Unit No.2
- Pin 6—Plate of Diode Unit No.1
- Pin 7—Plate of Triode Unit



18FY6A

TRIODE UNIT — AMPLIFIER — Class A₁

Maximum Ratings, *Design-Maximum Values:*

| | | |
|---|----------|-------|
| PLATE VOLTAGE | 150 max. | volts |
| GRID VOLTAGE: | | |
| Positive-bias value | 0 max. | volts |
| PLATE DISSIPATION | 0.5 max. | watt |
| PEAK HEATER-CATHODE VOLTAGE: | | |
| Heater negative with respect to cathode. | 100 max. | volts |
| Heater positive with respect to cathode. | 100 max. | volts |

DIODE UNITS — Two

Maximum Ratings, *Design-Maximum Values:*

Values are for Each Unit

| | | |
|-------------------------|--------|----|
| PLATE CURRENT | 1 max. | ma |
|-------------------------|--------|----|

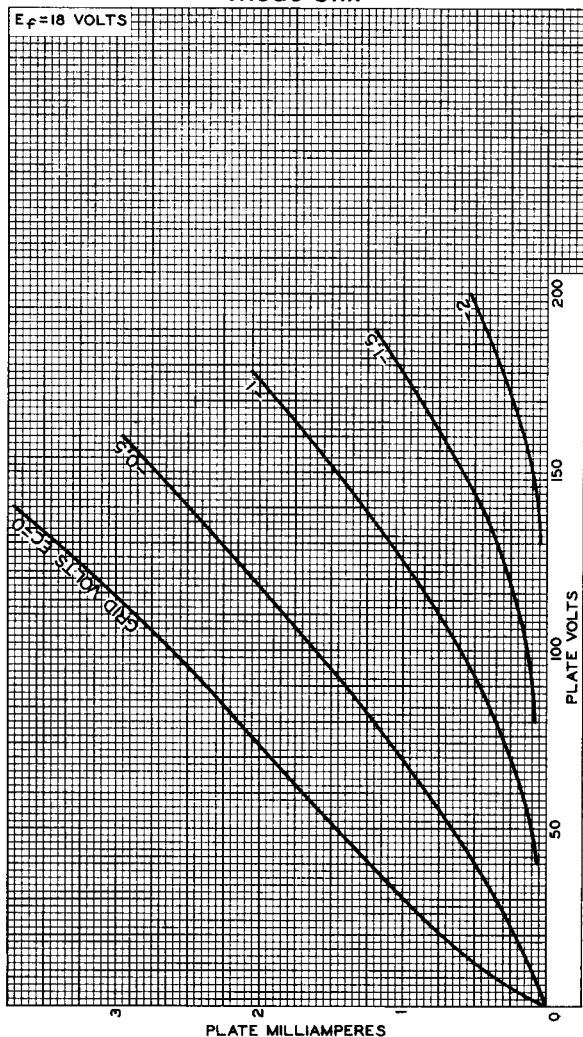
Characteristics, *Instantaneous Test Condition:*

| | | |
|---|---|----|
| Plate Current for plate volts = 10. | 2 | ma |
|---|---|----|

^a With external shield JEDEC No. 316 connected to cathode.



AVERAGE PLATE CHARACTERISTICS Triode Unit



92CM-10775

