

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	$0.1 \pm 6\%$	amp
Warm-up time (Average)	20	sec

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield^a</i>	
Triode grid to triode plate . .	1.8	1.8	$\mu\mu\text{f}$
Triode grid to cathode and heater.	2.4	2.4	$\mu\mu\text{f}$
Triode plate to cathode and heater.	0.22	2	$\mu\mu\text{f}$
Plate of diode unit No.2 to triode grid.	0.2 max.	0.2 max.	$\mu\mu\text{f}$

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:

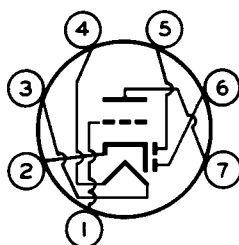
Operating Position.	Any
Maximum Overall Length.	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip).	1-1/2" $\pm$ 3/32"
Diameter.	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
Bulb.	T5-1/2
Base.	Small-Button Miniature 7-Pin (JEDEC No. E7-1)
Basing Designation 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
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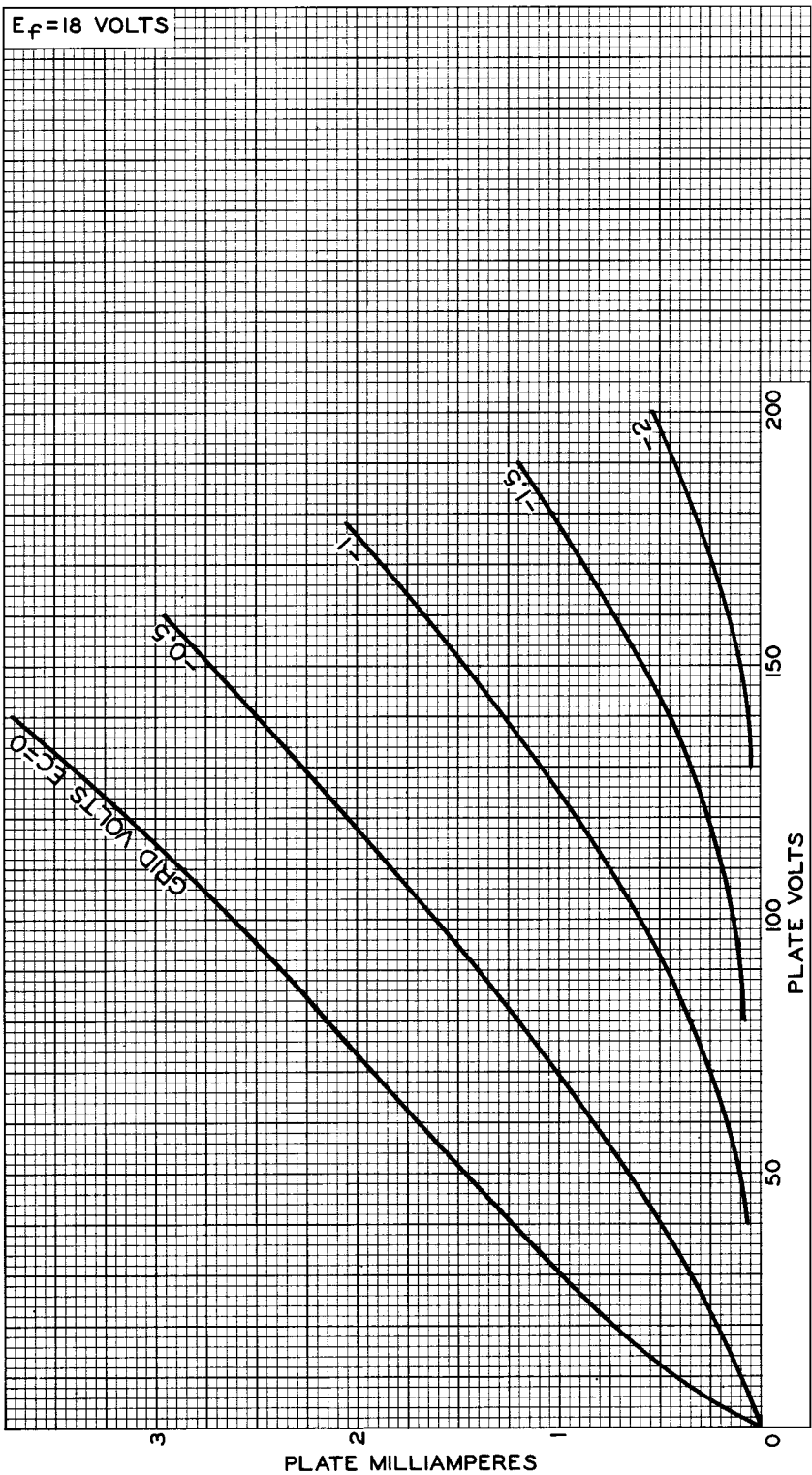
Characteristics, *Instantaneous Test Condition:*

Plate Current for plate volts = 10.	2	ma
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^a With external shield JEDEC No.316 connected to cathode.



AVERAGE PLATE CHARACTERISTICS Triode Unit



92CM-10775

