



18FY6

TWIN DIODE—HIGH-MU TRIODE

7-PIN MINIATURE TYPE

18FY6

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC). $18 \pm 10\%$ volts

Current 0.1 amp

Direct Interelectrode Capacitances:

	Without External Shield	With External Shield ^o	
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" $\pm$ 3/32"

Diameter. 0.650" to 0.750"

Dimensional Outline See General Section

Bulb. T5-1/2

Base. Small-Button Miniature 7-Pin (JEDEC No.E7-1)

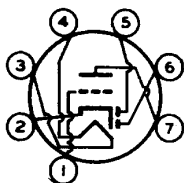
Basing Designation for BOTTOM VIEW 7BT

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

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

18FY6



18FY6

TWIN DIODE—HIGH-MU TRIODE

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

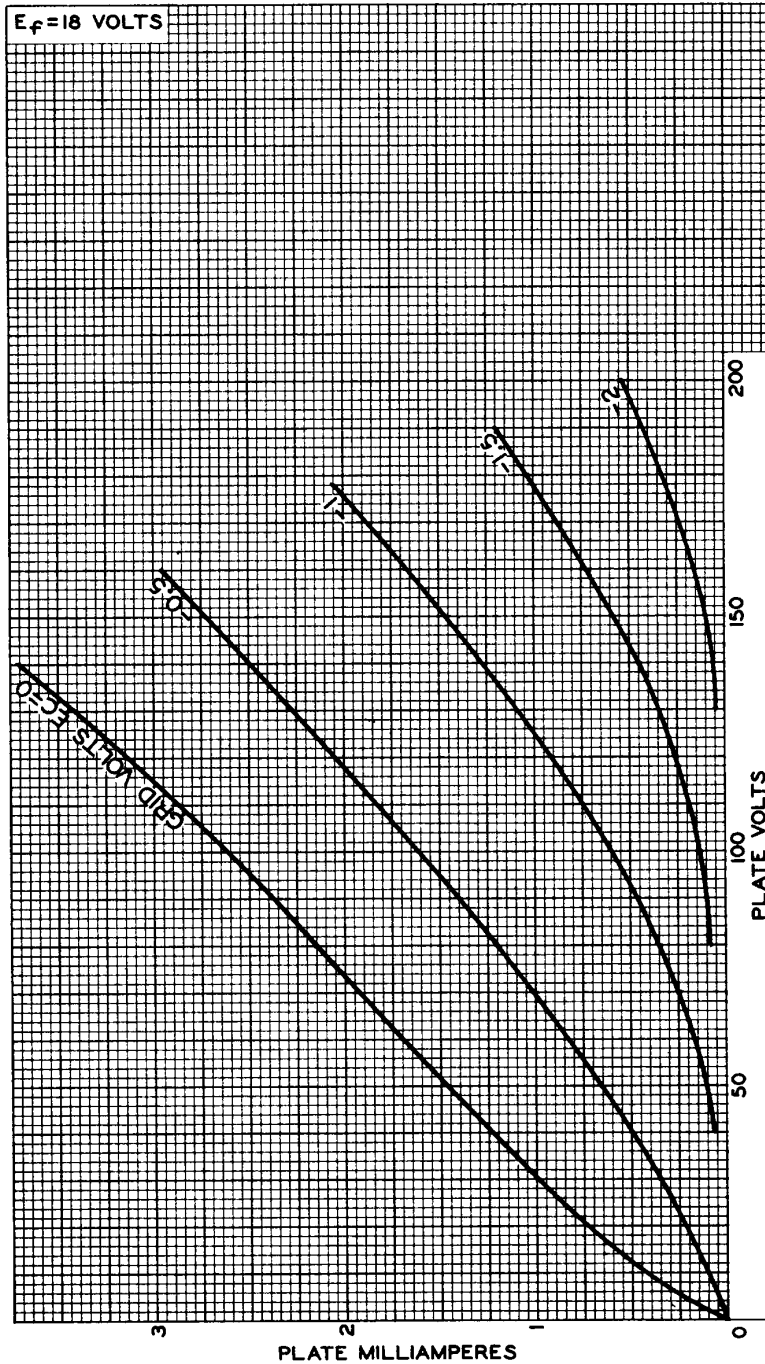
PLATE CURRENT.	1 max.	ma
------------------------	--------	----

Characteristics:

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

18FY6

AVERAGE PLATE CHARACTERISTICS Triode Unit



92CM-10775



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 2
1-61