6AL5

TWIN DIODE

MINIATURE TYPE

GENERAL DATA

Electrical:

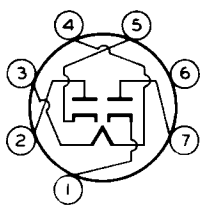
Heater, for Unipotential Cathodes:		
Voltage	6.3	ac or dc volts
Current	0.3	amp
Direct Interelectrode Capacitances (Approx.):[o]		
Plate No. 1 to Cathode No. 1, Heater, and Internal Shield*	2.5	μμf
Plate No. 2 to Cathode No. 2, Heater, and Internal Shield●	2.5	μμf
Cathode No. 1 to Plate No. 1, Heater, and Internal Shield*	3.4	μμf
Cathode No. 2 to Plate No. 2, Heater, and Internal Shield●	3.4	μμf
Plate No. 1 to Plate No. 2□	0.068 max.	μμf
Cold Resonant Frequency (Each Unit, Approx.)	700	Mc

[o] With no external shield.
* With plate and cathode of unit No.2 grounded.
● With plate and cathode of unit No.1 grounded.
□ With all other electrodes and internal shield grounded.

Mechanical:

Mounting Position	Any
Maximum Overall Length	1-3/4"
Maximum Seated Length	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/8" ± 3/32"
Maximum Diameter	3/4"
Bulb	T-5-1/2
Base — Small-Button Miniature 7-Pin (JETEC No.E7-1)	
Basing Designation for BOTTOM VIEW	6BT

Pin 1 – Cathode of Diode No.1
Pin 2 – Plate of Diode No.2
Pin 3 – Heater
Pin 4 – Heater
Pin 5 – Cathode of Diode No.2
Pin 6 – Internal Shield
Pin 7 – Plate of Diode No.1



RECTIFIER

Maximum Ratings, *Design-Center Values*:

PEAK INVERSE PLATE VOLTAGE	330 max.	volts
PEAK PLATE CURRENT PER PLATE	54 max.	ma
DC OUTPUT CURRENT PER PLATE	9 max.	ma
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	330 max.	volts
Heater positive with respect to cathode	330 max.	volts

← Indicates a change.

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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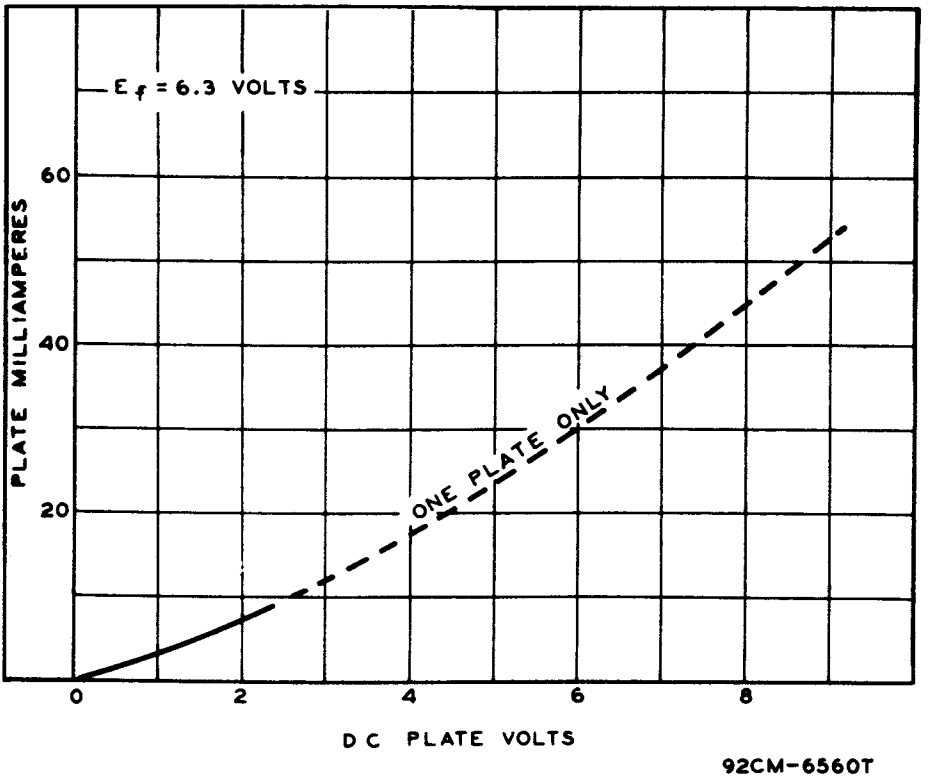
Typical Operation as Half-Wave Rectifier:

The Two Units May Be Used Separately or in Parallel

AC Plate Voltage per Plate (RMS)	117	volts
Min. Total Effect. Plate-Supply Impedance per Plate	300	ohms
DC Output Current per Plate	9	ma

AVERAGE PLATE CHARACTERISTIC



92CM-6560T

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AVERAGE CHARACTERISTICS

HALF-WAVE RECTIFICATION - SINGLE DIODE