



6AL5

TWIN DIODE

MINIATURE TYPE

6AL5

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	$\mu\mu\text{f}$
Plate No. 2 to Cathode No. 2, Heater, and Internal Shield ^o	2.5	$\mu\mu\text{f}$
Cathode No. 1 to Plate No. 1, Heater, and Internal Shield*	3.4	$\mu\mu\text{f}$
Cathode No. 2 to Plate No. 2, Heater, and Internal Shield ^o	3.4	$\mu\mu\text{f}$
Plate No. 1 to Plate No. 2 ^o	0.068 max.	$\mu\mu\text{f}$

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:

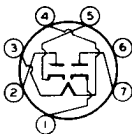
Mounting Position	Any
Maximum Overall Length	1-3/4"
Maximum Seated Length	1-1/2"
Length, Base Seat to Bulb Top (excluding tip)	1-1/8" \pm 3/32"
Maximum Diameter	3/4"
Bulb	T-5-1/2
Base	Small-Button Miniature 7-Pin (JETEC No.E7-1)
Basing Designation for BOTTOM VIEW	6BT

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.

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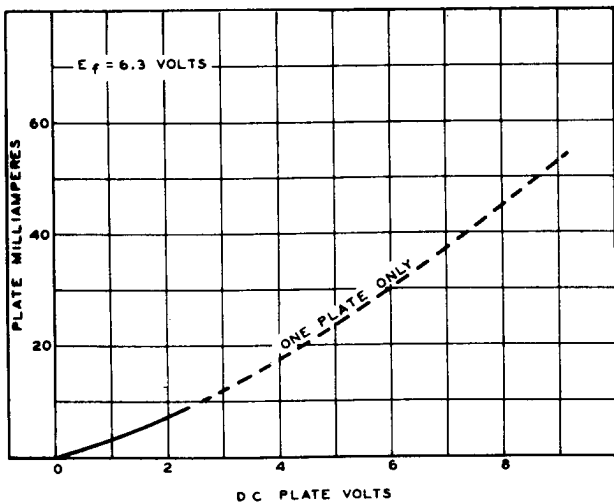
TWIN DIODE

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



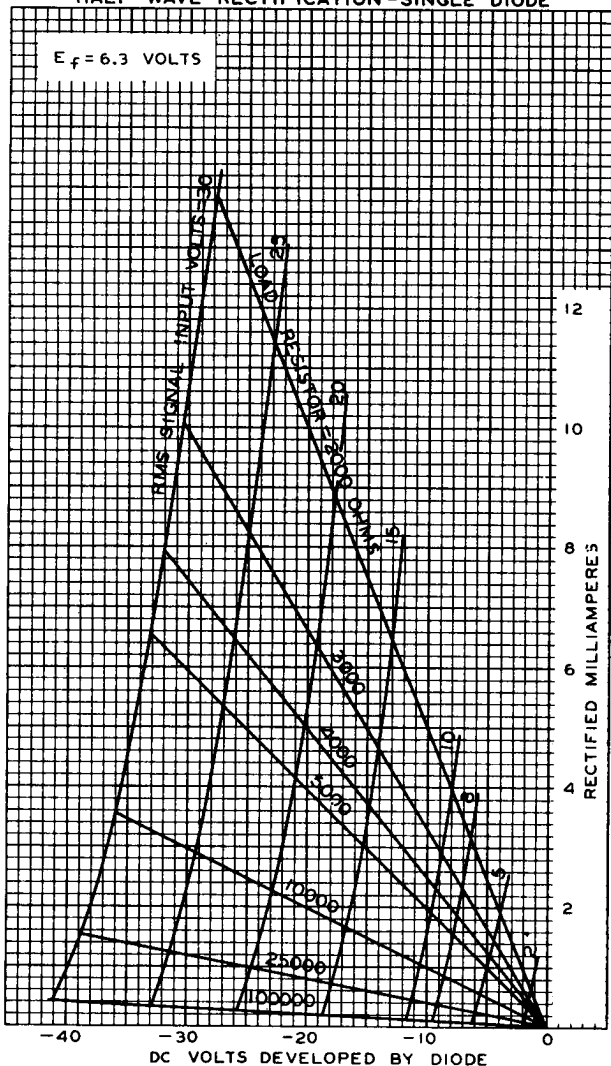
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AVERAGE CHARACTERISTICS HALF-WAVE RECTIFICATION-SINGLE DIODE



JUNE 7, 1944

TUBE DEPARTMENT

92CM-6561

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY