



6AL5

TWIN DIODE

MINIATURE TYPE

6AL5

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage	6.3	ac or dc volts
Current	0.3	amp

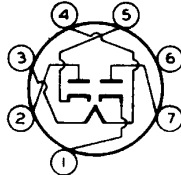
Direct Interelectrode Capacitances (Approx.):^o

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

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.

MAY 3, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

6AL5



6AL5

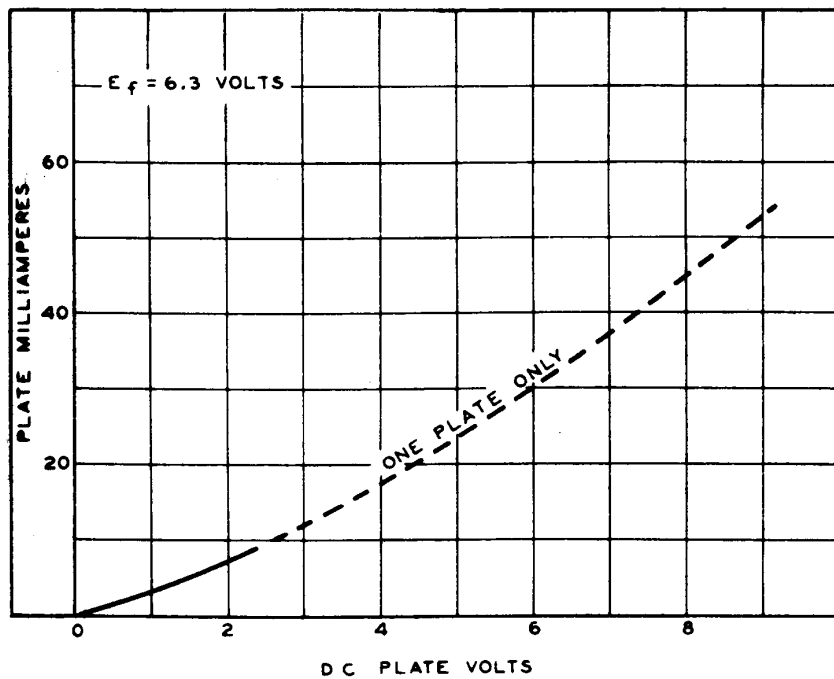
TWIN DIODE

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



92CM-6560T

MAY 3, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

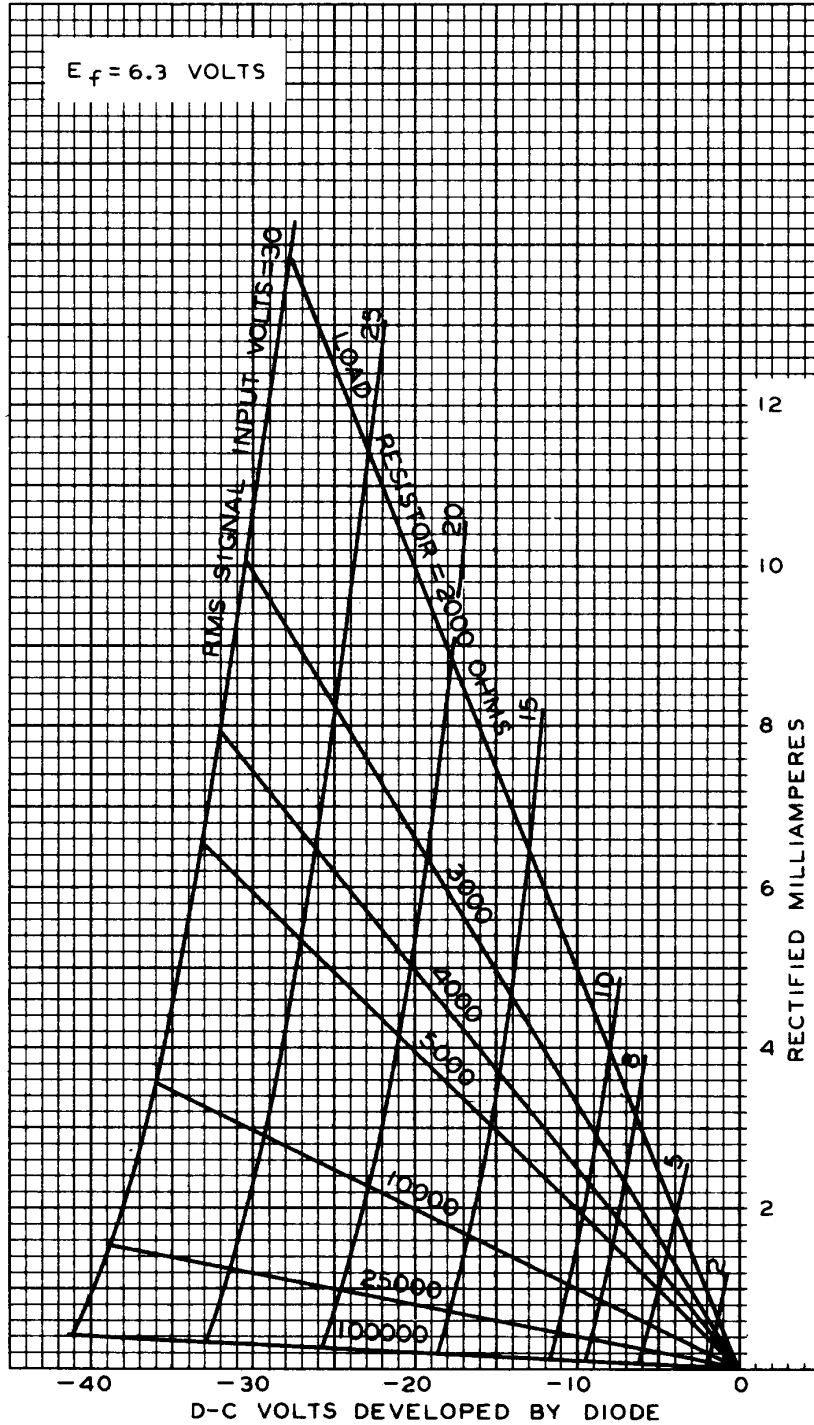
DATA



6AL5

AVERAGE CHARACTERISTICS
HALF-WAVE RECTIFICATION-SINGLE DIODE

6AL5



JUNE 7, 1944

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6561