



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.):<sup>o</sup>

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 <sup>o</sup> . . . . .	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 <sup>o</sup> . . . . .	3.4 . . . . .	$\mu\mu\text{f}$
Plate No. 1 to Plate No. 2 <sup>o</sup> . . . . .	0.068 max. . . . .	$\mu\mu\text{f}$

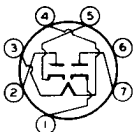
Cold Resonant Frequency (Each Unit, Approx.) 700 . . . . . Mc

- <sup>o</sup> 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 (JEDEC 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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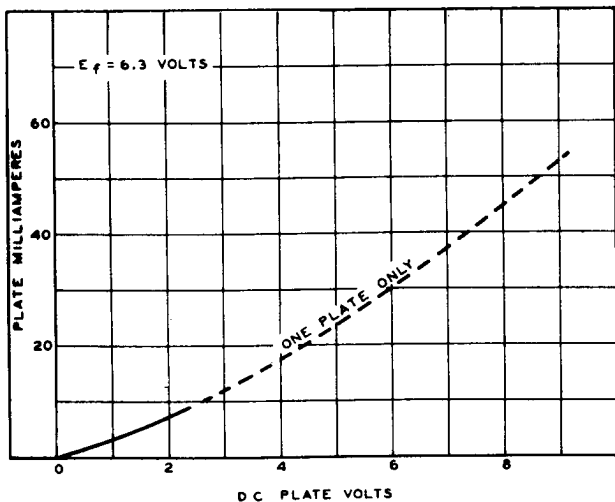
### TWIN DIODE

#### 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



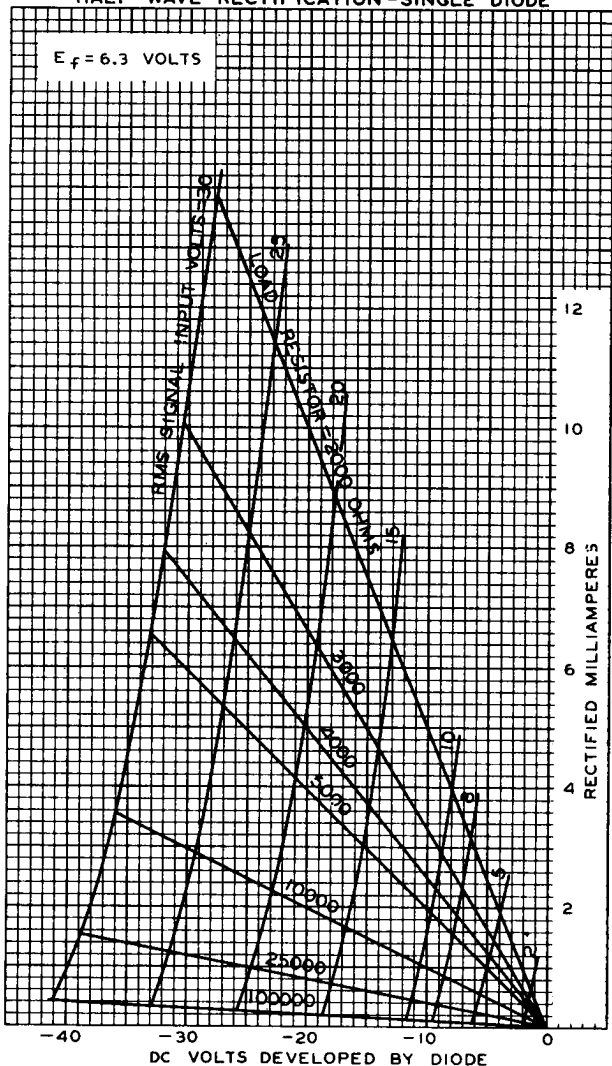
92CM-6560T



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### AVERAGE CHARACTERISTICS HALF-WAVE RECTIFICATION-SINGLE DIODE



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TUBE DEPARTMENT

92CM-6561

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY