



5726

### TWIN DIODE

MINIATURE TYPE

*Intended for applications where dependable performance under shock and vibration is paramount.*

*The 5726 is a "premium" version of the 6AL5W.*

**5726**  
**PREMIUM TYPE**

#### GENERAL DATA

##### Electrical:

Heater, for Unipotential Cathodes:

Voltage . . . . . 6.3 ± 10% . . . . . ac or dc volts

Current . . . . . 0.3 . . . . . amp

Resonant Frequency (Each unit, approx.) . . . . . 700 Mc

Direct Interelectrode Capacitances

(With external shield JETEC No.316):

##### Unit No. 1:

Plate to Cathode + External Shield, Heater, and Internal Shield . . . . . 3.2 μf

Cathode to Plate + External Shield, Heater, and Internal Shield . . . . . 3.9 μf

##### Unit No. 2:

Plate to Cathode + External Shield, Heater, and Internal Shield . . . . . 3.2 μf

Cathode to Plate + External Shield, Heater, and Internal Shield . . . . . 3.9 μf

Plate of Unit No.1 to Plate of Unit No.2\* 0.026 max. μf

##### 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)

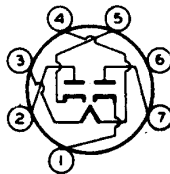
#### BOTTOM VIEW

Pin 1 - Cathode of Diode Unit No.1

Pin 2 - Plate of Diode Unit No.2

Pin 3 - Heater

Pin 4 - Heater



Pin 5 - Cathode of Diode Unit No.2

Pin 6 - Internal Shield

Pin 7 - Plate of Diode Unit No.1

#### HALF-WAVE RECTIFIER

##### Maximum Ratings, Absolute Values:

PEAK INVERSE PLATE VOLTAGE . . . . . 360 max. volts

PEAK PLATE CURRENT PER PLATE . . . . . 60 max. ma

\* With external and internal shield connected to ground.

SEPT. 1, 1952

TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA 1

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## TWIN DIODE

<b>HOT-SWITCHING TRANSIENT PLATE CURRENT</b>		
For duration of 0.2 second maximum . . .	350 max.	ma
<b>DC OUTPUT CURRENT PER PLATE . . . . .</b>	10 max.	ma
<b>PEAK HEATER-CATHODE VOLTAGE:</b>		
Heater negative with respect to cathode	360 max.	volts
Heater positive with respect to cathode	360 max.	volts

**Typical Operation:**

*The two units may be used separately or in parallel*

<b>AC Plate-Supply Voltage</b>		
Per Plate (RMS) . . . . .	117	volts
<b>Minimum Total Effective Plate-Supply</b>		
Impedance Per Plate . . . . .	300	ohms
<b>DC Output Current Per Plate . . . . .</b>	9	ma

**Shock and Vibration Tests:**

These tests are made as indicated in the JAN Specifications: JAN 1-A for Electron Tubes, May 1946 under the section as follows:

<b>Section F6b (9e) Shock Test:</b>		
Instantaneous Impact Acceleration . .	700 max.	g
<b>Section F6b (9f) Vibration Test:</b>		
Vibrational Acceleration . . . . .	2.5 max.	g

**Heater Cycling Life Test:**

This test is made as indicated in the JAN Specifications JAN 1-A for Electron Tubes for type 5726/6AL5W.

<b>Cycles of Intermittent Operation:</b>		
At a heater voltage of 7.5 volts . . .	2000 min.	cycles

**CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN**

	Note	Min.	Max.	
Heater Current . . . . .	1	0.275	0.325	amp.
<b>Direct Interelectrode Capacitances (With external shield JETEC No.316):</b>				
<i>Unit No. 1:</i>				
Plate to Cathode + External Shield, Heater, and Internal Shield . . . . .	-	2.4	4.0	$\mu\mu\text{f}$
Cathode to Plate + External Shield, Heater, and Internal Shield . . . . .	-	2.8	4.4	$\mu\mu\text{f}$
<i>Unit No. 2:</i>				
Plate to Cathode + External Shield, Heater, and Internal Shield . . . . .	-	2.4	4.0	$\mu\mu\text{f}$
Cathode to Plate + External Shield, Heater, and Internal Shield . . . . .	-	2.8	4.4	$\mu\mu\text{f}$

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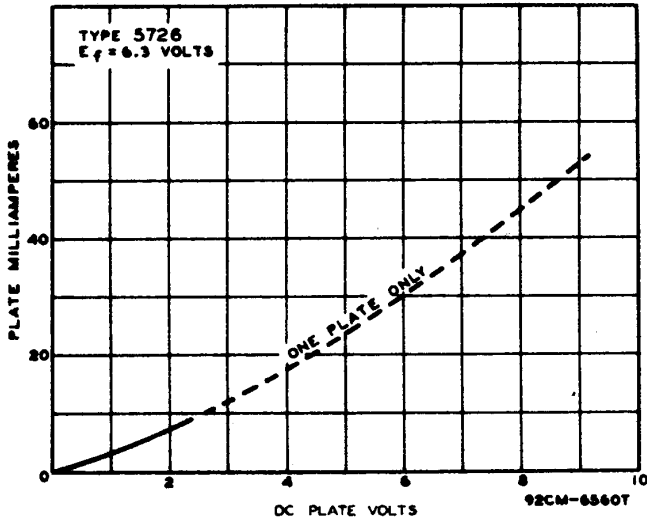
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### TWIN DIODE

	Note	Min.	Max.	
Plate of Unit No.1 to Plate of Unit No.2 . . . . .	2	-	0.026	$\mu\mu\text{f}$
Plate Current (Per Plate) . . .	1,3	40	-	ma

Note 1: With 6.3 volts ac on heater.  
 Note 2: With external and internal shield connected to ground.  
 Note 3: With dc plate voltage = 10 volts. Each unit tested separately with electrodes of opposite unit grounded.

AVERAGE PLATE CHARACTERISTIC

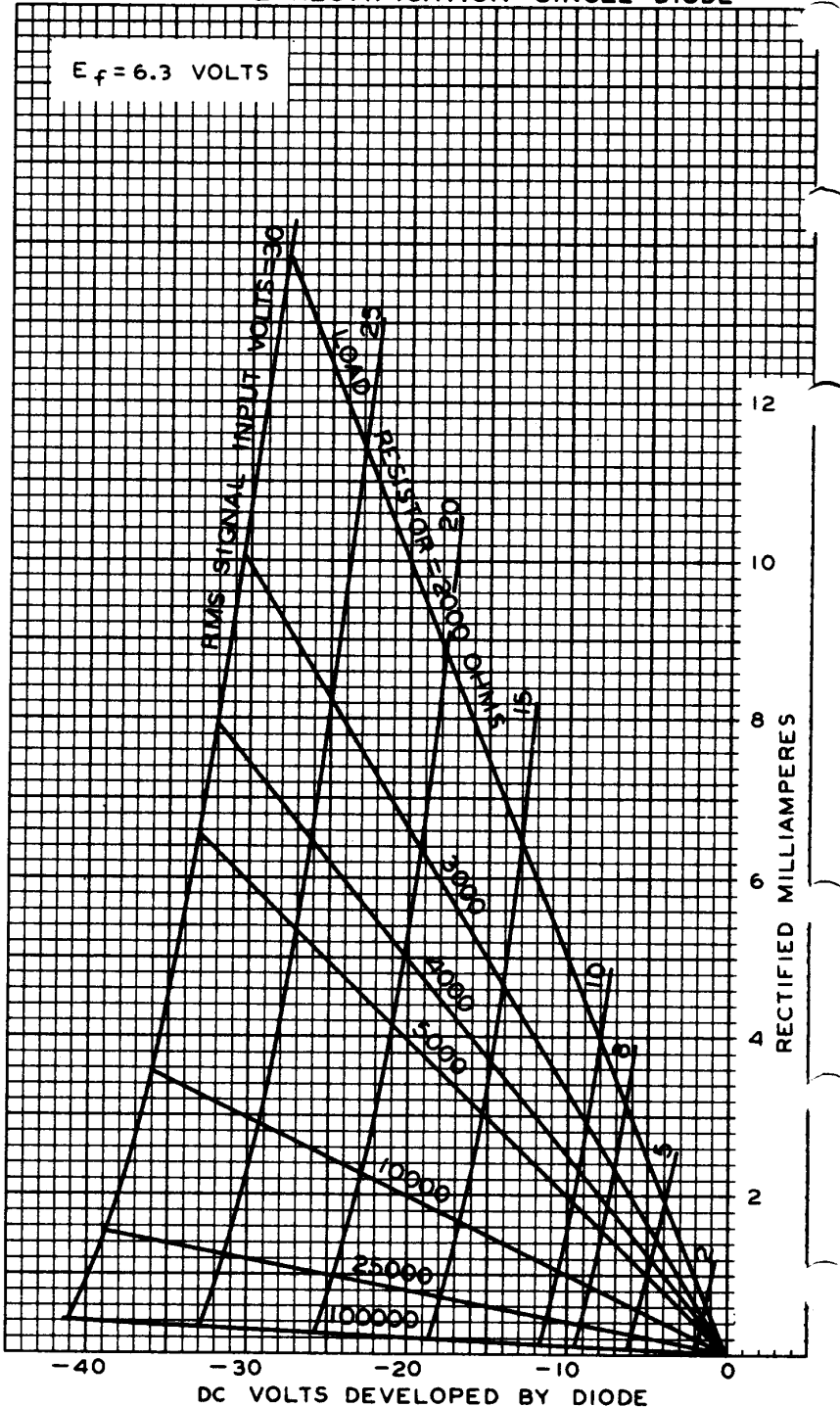


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### AVERAGE CHARACTERISTICS HALF-WAVE RECTIFICATION-SINGLE DIODE



JUNE 7, 1944

TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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