



5726

TWIN DIODE

MINIATURE TYPE

5726
PREMIUM TYPE

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

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

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
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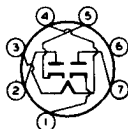
Mechanical:

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 VIEWPin 1 - Cathode of
Diode Unit
No.1Pin 2 - Plate of
Diode Unit
No.2

Pin 3 - Heater

Pin 4 - Heater

Pin 5 - Cathode of
Diode Unit
No.2Pin 6 - Internal
ShieldPin 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

TENTATIVE DATA 1

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



TWIN DIODE

HOT-SWITCHING TRANSIENT PLATE CURRENT

For duration of 0.2 second maximum . . .	350 max.	ma
DC OUTPUT CURRENT PER PLATE	10 max.	ma

PEAK HEATER-CATHODE VOLTAGE:

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

AC Plate-Supply Voltage		
Per Plate (RMS)	117	volts
Minimum Total Effective Plate-Supply		
Impedance Per Plate	300	ohms
DC Output Current Per Plate	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:

Section F6b (9e) Shock Test:

Instantaneous Impact Acceleration . .	700 max.	g
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Section F6b (9f) Vibration Test:

Vibrational Acceleration	2.5 max.	g
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Heater Cycling Life Test:

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

Cycles of Intermittent Operation:

At a heater voltage of 7.5 volts . . .	2000 min. cycles	
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CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Note	Min.	Max.	
Heater Current	1	0.275	0.325	amp
Direct Interelectrode Capacitances (With external shield JETEC No.316):				
Unit No.1:				
Plate to Cathode+ External Shield, Heater, and Internal Shield	-	2.4	4.0	μf
Cathode to Plate+ External Shield, Heater, and Internal Shield	-	2.8	4.4	μf
Unit No.2:				
Plate to Cathode+ External Shield, Heater, and Internal Shield	-	2.4	4.0	μf
Cathode to Plate+ External Shield, Heater, and Internal Shield	-	2.8	4.4	μf



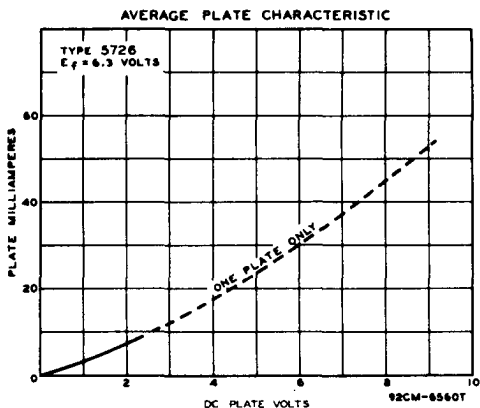
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	Note	Min.	Max.	
Plate of Unit No.1 to Plate of Unit No.2	2	-	0.026	μ f
Plate Current (Per Plate) . . .	1,3	40	-	ma

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.

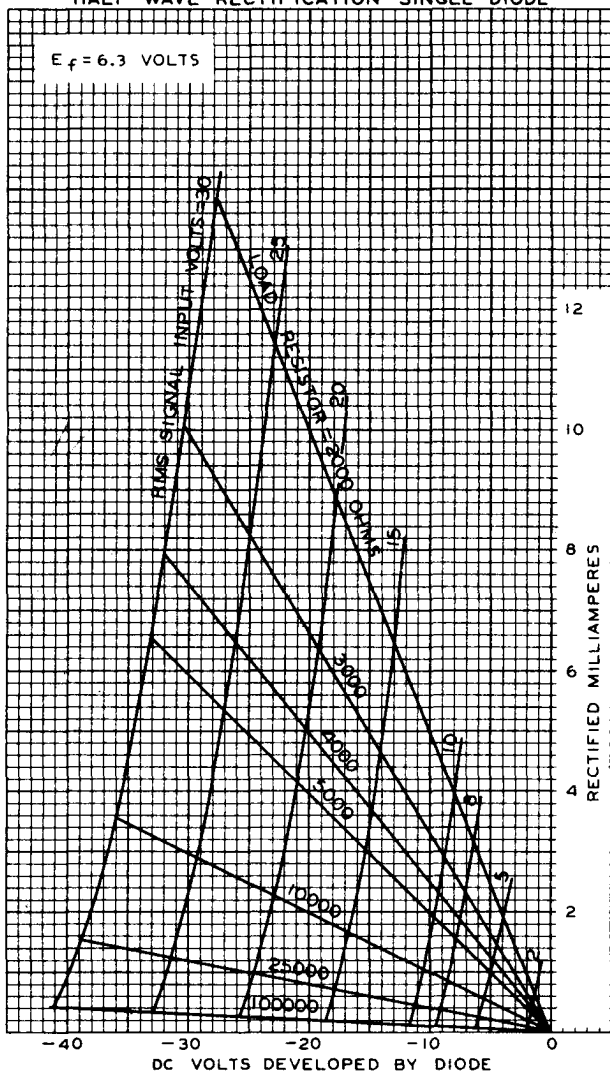


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AVERAGE CHARACTERISTICS HALF-WAVE RECTIFICATION-SINGLE DIODE

 $E_f = 6.3 \text{ VOLTS}$


JUNE 7, 1944

TUBE DEPARTMENT

92CM-6561

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY