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.

**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 max. 0.026 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.

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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA 1
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
Section F6b (9f) Vibration Test:
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.
Cycles of Intermittent Operation:
At a heater voltage of 7.5 volts ... 2000 min. cycles

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

<table>
<thead>
<tr>
<th>Note</th>
<th>Min.</th>
<th>Max.</th>
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<tbody>
<tr>
<td>Heater Current .......... 1</td>
<td>0.275</td>
<td>0.325</td>
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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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TENTATIVE DATA 1
Plate of Unit No.1 to Plate of
Unit No.2 . . . . . . . . . . . . 2       -    0.026 \mu 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 CHARACTERISTICS
HALF-WAVE RECTIFICATION - SINGLE DIODE

$E_f = 6.3$ VOLTS

DC VOLTS DEVELOPED BY DIODE

RECTIFIED MILLIAMPERES

JUNE 7, 1944
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, MARRISON, NEW JERSEY

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