SYLVANIA ELECTRIC
RTMA Registration Data

TYPE 6AZ5
DOUBLE DIODE

The Type 6AZ5 is a general purpose double diode designed for use as a diode detector, AVC rectifier and low current power supply rectifier.

MECHANICAL DATA

Style............................................................... subminiature
Cathode............................................................ unipotential
Bulb................................................................. T-3
Base................................................................. K6-1, Subminiature Button--Flexible Leads
Outline............................................................. 3-1
Maximum Diameter................................................ 0.400 inch
Maximum Overall Bulb Length................................. 1.375 inches
Mounting Position............................................... any
Basing............................................................... 8DF-0-5

Lead Connections:
Lead 1 .. #2 diode plate  Lead 5 .. internal shield
Lead 2 .. #2 diode cathode  Lead 6 .. heater
Lead 3 .. heater  Lead 7 .. #1 diode cathode
Lead 4 .. no connection  Lead 8 .. #1 diode plate

ELECTRICAL DATA

RATINGS -- Design Center System

Maximum Plate Supply Voltage (ac, each plate).............. 150 volts
Maximum Peak Inverse Voltage................................. 420 volts
Maximum Steady State Peak Plate Current (each plate)........ 24 milliamps
Maximum Output Current (dc, each plate)..................... 4 milliamps
Maximum Heater-Cathode Voltage (dc)........................ ±330 volts

CHARACTERISTICS

Plate Current for 10 Volts Tube Voltage Drop (each plate).................... 15 milliamps

TYPICAL OPERATION -- Single Section:
Half-Wave Rectifier,
Capacitor Input Filter

Heater Voltage (ac or dc)........................................ 6.3 volts
Heater Current.................................................. 150 milliamps
Plate Supply Voltage (ac, each plate)........................ 50 volts
Minimum Total Effective Plate Supply Impedance (each plate)............. 400 ohms
Filter Input Capacitance....................................... 8 microfarads
Output Current (dc, each plate)................................ 4 milliamps

from RTMA release 962, April 9, 1951
TYPE 6AZ5

RECTIFICATION CHARACTERISTICS
SINGLE DIODE
C = 8.0 μF

RECTIFIED CURRENT (MILLAMPS)

DC DEVELOPED VOLTAGE (VOLS)

DC LOAD RESISTANCE = 4700 OHMS

PLATE CHARACTERISTIC
SINGLE DIODE

PLATE CURRENT (MILLAMPS)

PLATE VOLTAGE (VOLS)
To
Tube Engineers:

On April 9, 1951 in Release No. 962 the RTMA Data Bureau announced the registration of JETEC tube type designation

6AZ5

under the sponsorship of Sylvania Electric Products, Inc., New York, N. Y.

Sponsor now proposes reregistration of this designation on the basis of the following modifications.

Direct Interelectrode Capacitances:

<table>
<thead>
<tr>
<th></th>
<th>Shielded(1)</th>
<th>Not Shielded</th>
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</thead>
<tbody>
<tr>
<td>Plate to Plate, max.</td>
<td>0.09</td>
<td>0.2 uuf</td>
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<tr>
<td>Input (each section): Plate to Cathode, Heater, Internal Shield and External Shield</td>
<td>2.2</td>
<td>1.6 uuf</td>
</tr>
<tr>
<td>Cathode to Heater, Plate, Internal Shield and External Shield (each section)</td>
<td>2.8</td>
<td>2.6 uuf</td>
</tr>
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</table>

*(1) With external shield of 0.405 inch dia. connected to heater.

Unless valid objection to this reregistration is lodged with the Data Bureau prior to June 28, 1951, the indicated reregistration will be made and appropriate announcement will follow.

Respectfully yours,

RTMA DATA BUREAU

By

Ralph R. Batcher

FRBatcher:fh