

**MAZDA****20A2****20A2****GAS FILLED TETRODE****Indirectly heated—for use as a Grid Controlled Rectifier****RATING**

|                                          |                |             |   |
|------------------------------------------|----------------|-------------|---|
| Heater Voltage (volts)                   | $V_h$          | 6.3         |   |
| Heater Current (amps)                    | $I_h$          | 1.0         |   |
| Approximate Voltage Drop (volts)         |                | 9.0         |   |
| Maximum Peak Forward Anode Voltage       | $V_a$ (max)    | 600         |   |
| Maximum Peak Inverse Anode Voltage       | PIV (max)      | 1,300       |   |
| Maximum Shield Grid Voltage (volts)      | $V_{g2}$ (max) | —100        | ← |
| Maximum Control Grid Voltage (volts)     | $V_{g1}$ (max) | —100        | ← |
| Maximum Peak Cathode Current (mA)        | $I_k(pk)$ max  | 1,250       |   |
| Maximum Mean Cathode Current (mA)        | $I_k(av)$ max  | 250         |   |
| Control Grid Series Resistance (megohms) |                | 0.01 to 1.0 |   |

**NOTE**

Cathode and heater should normally be tied externally. If left free, the heater to cathode voltage must never exceed 25 volts peak. The heater must be switched on for 15 seconds before anode voltage is applied.

All maximum ratings are absolute values, not design centres.

**DIMENSIONS**

|                                 |     |
|---------------------------------|-----|
| Maximum Overall Length (mm)     | 110 |
| Maximum Diameter (mm)           | 40  |
| Maximum Seated Height (mm)      | 97  |
| Approximate Nett Weight (ozs)   | 1½  |
| Approximate Packed Weight (ozs) | 2   |

Indicates a change ←

March 1957

Industrial  
VALVE & CRT DIVISION

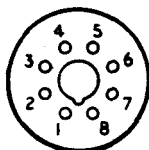
Issue 2/6

**SIEMENS EDISON SWAN LIMITED**

20A2

**MAZDA****20A2****GAS FILLED TETRODE**

Indirectly heated—for use as a Grid Controlled Rectifier

MOUNTING POSITION—UnrestrictedBULB—ClearBASE—International Octal (108)

Viewed from free end of pins

CONNECTIONS

|       |               |       |
|-------|---------------|-------|
| Pin 1 | No connection | NC    |
| Pin 2 | Heater        | h     |
| Pin 3 | Anode         | a     |
| Pin 4 | No connection | NC    |
| Pin 5 | Control Grid  | $g_1$ |
| Pin 6 | Shield Grid   | $g_2$ |
| Pin 7 | Heater        | h     |
| Pin 8 | Cathode       | k     |

**MAZDA**

20.A.2

## GAS FILLED TETRODE

Indirectly heated—for use as a Grid Controlled Rectifier

### AVERAGE CHARACTERISTIC CURVES

