

**MAZDA**

**U.201**

**HALF WAVE RECTIFIER**

Indirectly heated - for series operation

U.201

**RATING**

|                                                                          |                 |      |
|--------------------------------------------------------------------------|-----------------|------|
| Heater Current (amps)                                                    | $I_h$           | 0.2  |
| Heater Voltage (volts)                                                   | $V_h$           | 20.0 |
| Maximum Anode Voltage<br>(volts RMS)                                     | $V_{a(rms)max}$ | 250  |
| Maximum Peak Inverse Anode<br>Voltage (volts)                            | P.I.V.(max)     | 750  |
| Maximum Mean Anode Current<br>(mA)                                       | $I_{a(av)max}$  | 90   |
| Maximum Peak Anode Current<br>(mA)                                       | $i_{a(pk)max}$  | 700  |
| Maximum Peak Potential<br>Heater/Cathode with heater<br>negative (volts) | $V_{h-k(max)}$  | 550  |

**DIMENSIONS**

|                                 |                |
|---------------------------------|----------------|
| Maximum Overall Length (mm)     | 98             |
| Maximum Diameter (mm)           | 32             |
| Maximum Seated Height (mm)      | 82             |
| Approximate Nett Weight (ozs)   | $1\frac{1}{4}$ |
| Approximate Packed Weight (ozs) | $1\frac{3}{4}$ |

**MOUNTING POSITION** - Unrestricted

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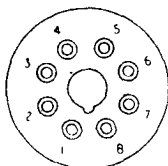
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**TYPICAL OPERATION**

|                                            |      |       |       |      |       |       |
|--------------------------------------------|------|-------|-------|------|-------|-------|
| D.C. Load Current (mA)                     | 70   | 70    | 70    | 90   | 90    | 90    |
| A.C. Input Volts (RMS)                     | 230  | 230   | 110   | 230  | 230   | 110   |
| D.C. Rectified Output                      | *248 | † 235 | [ 117 | *235 | † 220 | [ 111 |
| Reservoir Condenser (μF)                   | 16   | 16    | 32    | 16   | 16    | 32    |
| D.C. Voltage drop across rectifier (volts) | 8    | 8     | 8     | 9.5  | 9.5   | 9.5   |

- Voltage Output with 50 ohms limiting resistance in series with rectifier.
- † Voltage Output with 100 ohms limiting resistance in series with rectifier.
- [ Voltage Output with zero limiting resistance in series with rectifier.

**BULB** Clear**BASE** A.O.6

Viewed from free end of pins.

**CONNEXIONS**

|       |         |   |
|-------|---------|---|
| Pin 1 | Blank   |   |
| Pin 2 | Heater  | h |
| Pin 3 | Blank   |   |
| Pin 4 | Omitted |   |
| Pin 5 | Anode   | a |
| Pin 6 | Omitted |   |
| Pin 7 | Heater  | h |
| Pin 8 | Cathode | k |

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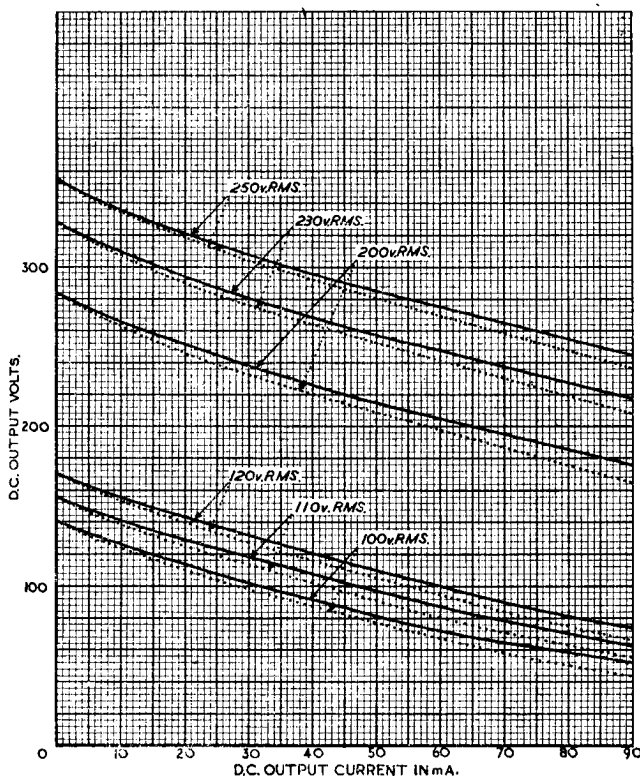
HALF WAVE RECTIFIER  
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CHARACTERISTIC CURVES OF AVERAGE  
**MAZDA VALVE U201**

HALF WAVE RECTIFICATION REGULATION CHARACTERISTIC

*Curves taken with 8 $\mu$ F Reservoir Condenser.*

Key { — no Limiting Resistance in Anode Circuit.  
      ..... 50 $\Omega$  Limiting Resistance in Anode Circuit.



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HALF WAVE RECTIFIER

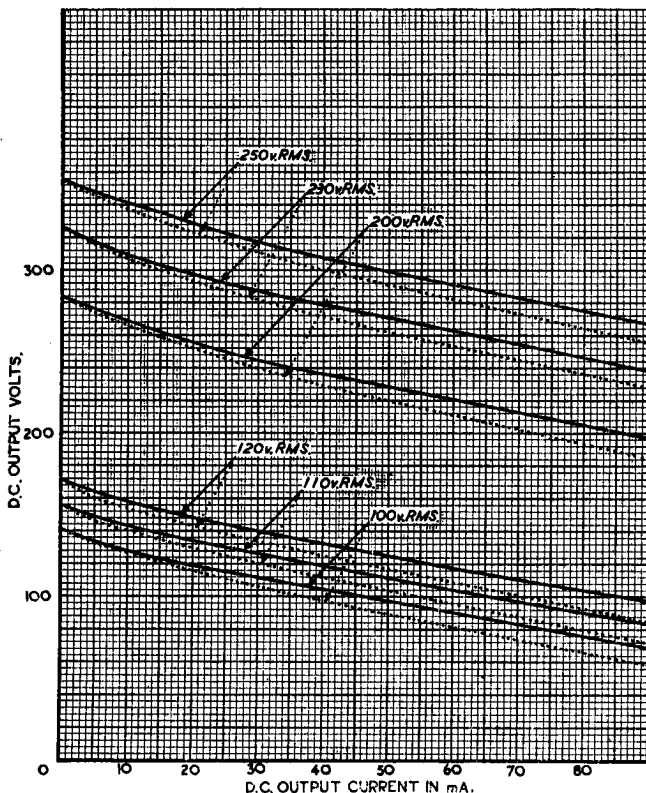
Indirectly heated—for series operation

# CHARACTERISTIC CURVES OF AVERAGE MAZDA VALVE U201

HALF WAVE RECTIFICATION REGULATION CHARACTERISTIC

*Curves taken with 12 $\mu$ F Reservoir Condenser.*

Key { — no Limiting Resistance in Anode Circuit.  
 ..... 50 $\Omega$  Limiting Resistance in Anode Circuit.



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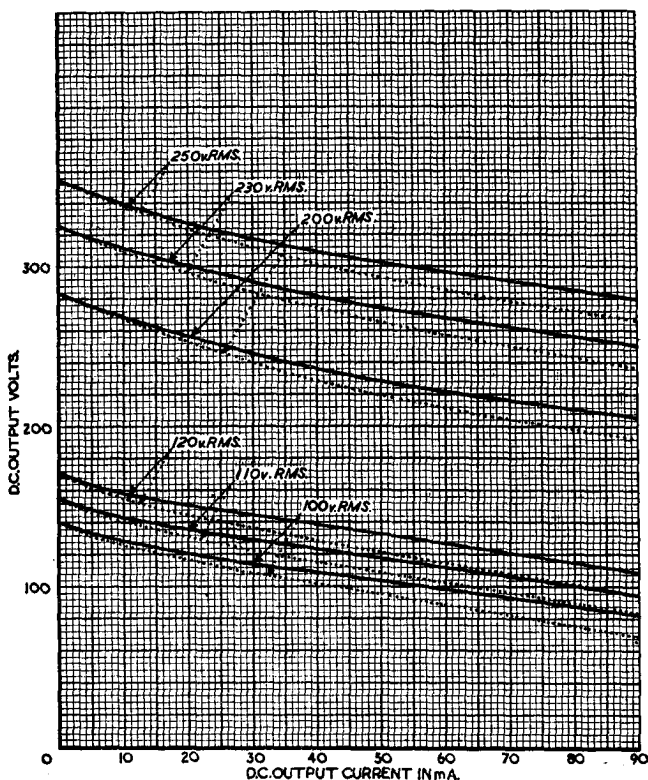
CHARACTERISTIC CURVES OF AVERAGE

**MAZDA VALVE U201**

HALF WAVE RECTIFICATION REGULATION CHARACTERISTIC

*Curves taken with 16  $\mu$ F Reservoir Capacitor.*

Key { — no Limiting Resistance in Anode Circuit.  
..... 50  $\Omega$  Limiting Resistance in Anode Circuit.



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# CHARACTERISTIC CURVES OF AVERAGE MAZDA VALVE U201

HALF WAVE RECTIFICATION REGULATION CHARACTERISTIC

Curves taken with  $32\mu\text{F}$  Reservoir Condenser.

Key { — no Limiting Resistance in Anode Circuit.  
 .....  $22\Omega$  Limiting Resistance in Anode Circuit

