

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 (volts RMS)	$V_a(\text{rms})_{\text{max}}$	250
Maximum Peak Inverse Anode Voltage (volts)	P.I.V.(max)	750
Maximum Mean Anode Current (mA)	$I_a(\text{av})_{\text{max}}$	90
Maximum Peak Anode Current (mA)	$i_a(\text{pk})_{\text{max}}$	700
Maximum Peak Potential Heater/Cathode with heater negative (volts)	$V_{h-k}(\text{max})$	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

U.201

MAZDA

U.201

HALF WAVE RECTIFIER

Indirectly heated - for series operation

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

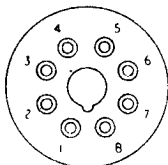
* Voltage Output with 50 ohms limiting resistance in series with rectifier.

† 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.0.6



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

MAZDA

U.201

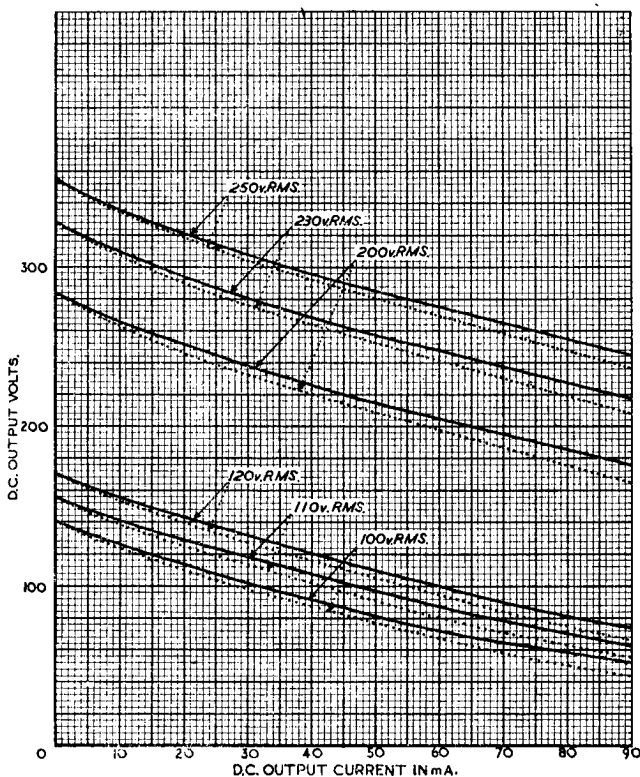
HALF WAVE RECTIFIER
Indirectly heated - for series operation

CHARACTERISTIC CURVES OF AVERAGE MAZDA VALVE U201

HALF WAVE RECTIFICATION REGULATION CHARACTERISTIC

Curves taken with 8 μ F Reservoir Condenser.

Key {
—— no Limiting Resistance in Anode Circuit.
..... 50 Ω Limiting Resistance in Anode Circuit.



U.201

MAZDA

U.201

HALF WAVE RECTIFIER

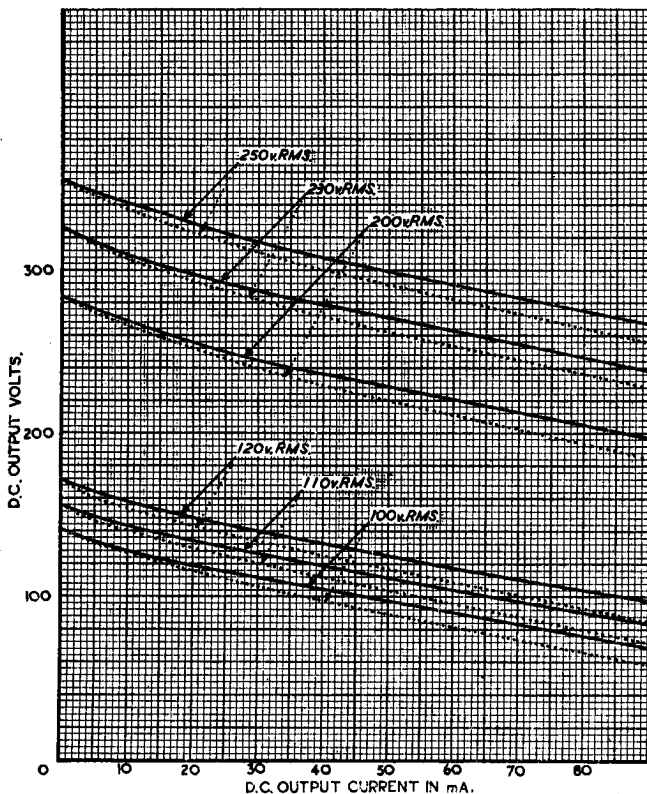
Indirectly heated—for series operation

**CHARACTERISTIC CURVES OF AVERAGE
MAZDA VALVE U201**

HALF WAVE RECTIFICATION REGULATION CHARACTERISTIC

Curves taken with 12 μ F Reservoir Condenser.

Key { — no Limiting Resistance in Anode Circuit.
..... 50 Ω Limiting Resistance in Anode Circuit.



MAZDA

U.201

HALF WAVE RECTIFIER

Indirectly heated - for series operation

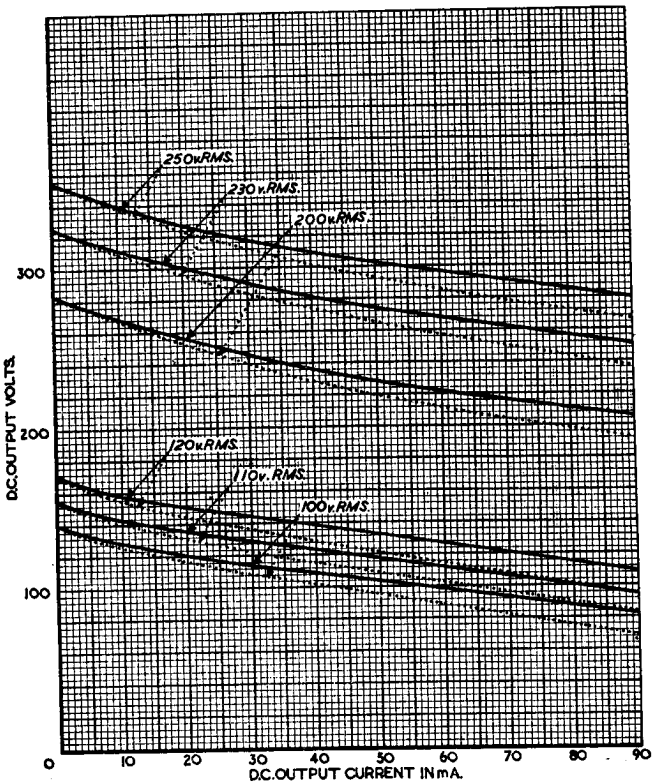
CHARACTERISTIC CURVES OF AVERAGE MAZDA VALVE U201

HALF WAVE RECTIFICATION REGULATION CHARACTERISTIC

Curves taken with 16 μ F Reservoir Condenser.

Key {

- no Limiting Resistance in Anode Circuit.
-50 Ω Limiting Resistance in Anode Circuit.



U.201

MAZDA

U.201

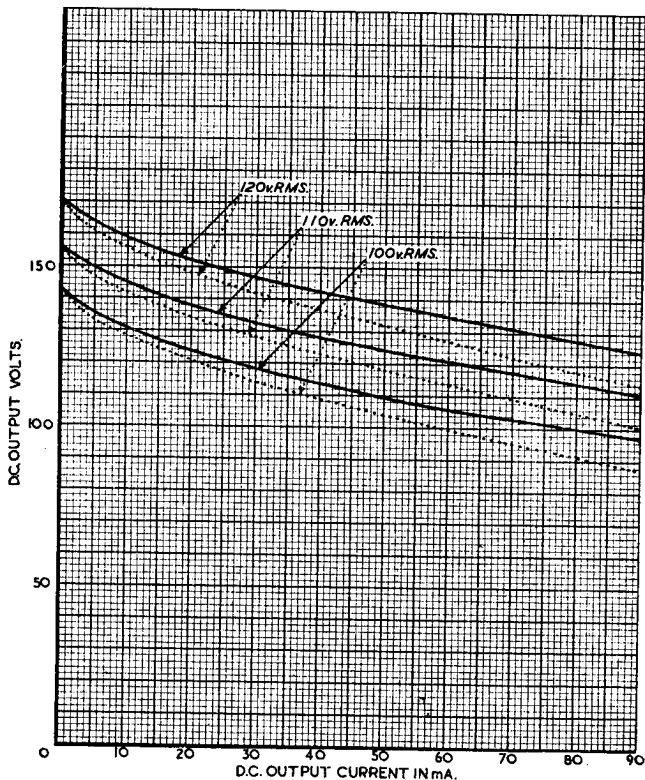
HALF WAVE RECTIFIER
Indirectly heated — for series operation

CHARACTERISTIC CURVES OF AVERAGE
MAZDA VALVE U201

HALF WAVE RECTIFICATION REGULATION CHARACTERISTIC

Curves taken with 32 μ F Reservoir Condenser.

Key { — no Limiting Resistance in Anode Circuit.
..... 22 Ω . Limiting Resistance in Anode Circuit.



May 1948

RADIO DIVISION

Issue 1/2

THE EDISON SWAN ELECTRIC COMPANY LTD.