

EDISWAN

MAZDA

20L1

TELEVISION TWIN TRIODE

Indirectly heated—for series operation

REPLACEMENT TYPE

20L1

RATING

Heater Current (amps)	I_h	0.2
Heater Voltage (volts)	V_h	12.6
Maximum Anode Voltage (volts)	$V_a(\max)$	250
Mutual Conductance (mA/V)	g_m	2.8*
Amplification Factor	μ	16*
Maximum Anode Dissipation (watts) (either section)	$P_a(\max)$	3.0†
Maximum Total Anode Dissipation (watts)	$P_a(\text{tot}) \max$	4.0†
Maximum Heater/Cathode Voltage (volts r.m.s.)	$V_{h-k}(\max)$	250‡

* Taken at $V_a=200$ volts ; $I_a=10$ mA.

† The permissible anode dissipation rating is a function of the grid cathode resistance and the circuit employed.

‡ Measured with respect of the higher potential heater pin.

INTER-ELECTRODE CAPACITANCES (pF)

Grid 1/Anode 1	$c_{g'-a'}$	§ 2.7	2.9
Grid 2/Anode 2	$c_{g''-a''}$	2.6	2.8
Grid 1/Earth	$c_{g'-E}$	2.8	4.1
Grid 2/Earth	$c_{g''-E}$	2.8	4.1
Anode 1/Earth	$c_{a'-E}$	2.4	3.7
Anode 2/Earth	$c_{a''-E}$	2.2	3.5
Anode 1/Anode 2	$c_{a'-a''}$	0.62	0.62
Grid 1/Grid 2	$c_{g'-g''}$	0.016	0.017
Grid 1/Anode 2	$c_{g'-a''}$	0.033	0.034
Grid 2/Anode 1	$c_{g''-a'}$	0.09	0.10

§ Inter-electrode capacitances with holder capacitance balanced out.

|| Total capacitances including a Benjamin B8A moulded holder measured at a frequency of 1Mc/s.

Indicates a change ←

20LI

EDISWAN

MAZDA

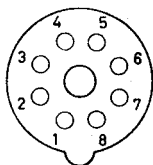
20LI

TELEVISION TWIN TRIODE

Indirectly heated—for series operation

REPLACEMENT TYPE ←DIMENSIONS

Maximum Overall Length	(mm)	67
Maximum Diameter	(mm)	22
Maximum Seated Height	(mm)	54
Radius over Location Key	(mm)	12.25
Approximate Net Weight	(ozs)	$\frac{3}{4}$
Approximate Packed Weight	(ozs)	1

MOUNTING POSITION—Unrestricted.BULB—ClearBASE—B8A.

Viewed from free end of pins

CONNECTIONS

Pin 1	Heater	h
Pin 2	Anode 2	a''
Pin 3	Grid 2	g''
Pin 4	Cathode 2	k''
Pin 5	Anode 1	a'
Pin 6	Grid 1	g'
Pin 7	Cathode 1	k'
Pin 8	Heater	h

Indicates a change ←

October 1958

VALVE & CRT DIVISION

Issue 3/2A

SIEMENS EDISON SWAN LIMITED

EDISWAN

MAZDA

20L1

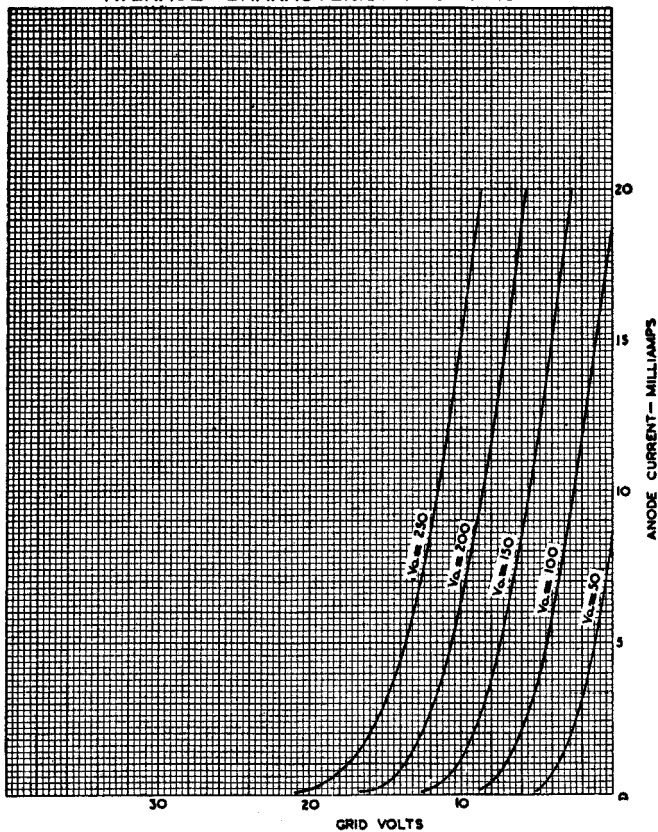
TELEVISION TWIN TRIODE
Indirectly heated—for series operation

REPLACEMENT TYPE

20L1



AVERAGE CHARACTERISTIC CURVES



Indicates a change

October 1958

VALVE & CRT DIVISION

Issue 2/2A

SIEMENS EDISON SWAN LIMITED

20L1

EDISWAN

MAZDA

20L1

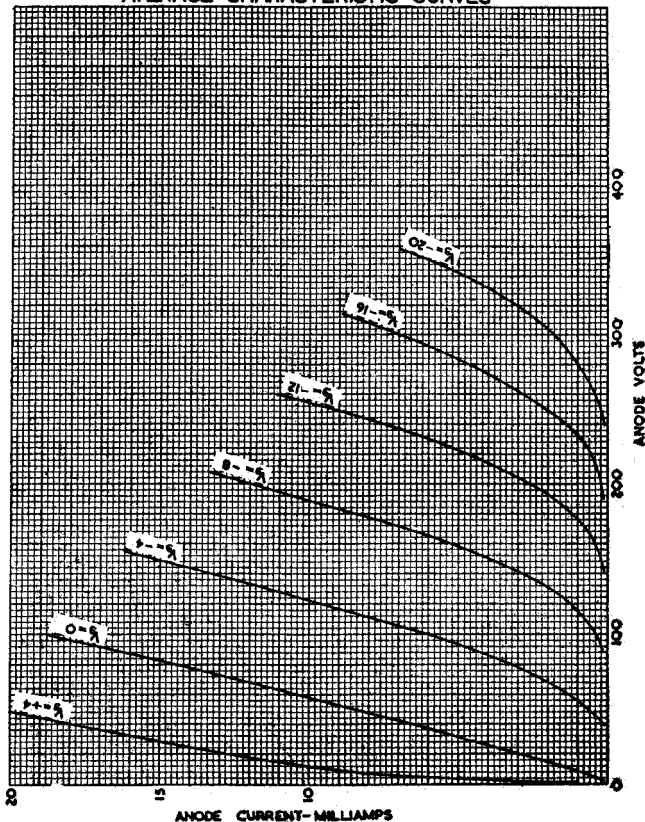
TELEVISION TWIN TRIODE

Indirectly heated—for series operation

REPLACEMENT TYPE



AVERAGE CHARACTERISTIC CURVES



Indicates a change ←

October 1958

VALVE & CRT DIVISION

Issue 2/2A

SIEMENS EDISON SWAN LIMITED

20L1

EDISWAN

MAZDA

20L1

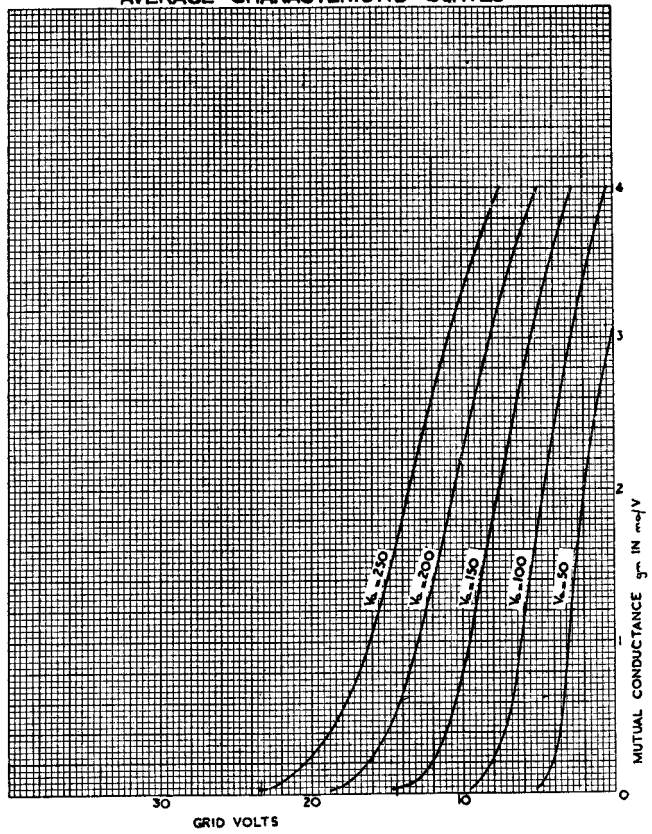
TELEVISION TWIN TRIODE

Indirectly heated—for series operation

REPLACEMENT TYPE



AVERAGE CHARACTERISTIC CURVES



Indicates a change

October 1958

VALVE & CRT DIVISION

Issue 2/2A

SIEMENS EDISON SWAN LIMITED