EDISWAN

MAZDA

6L19

DOUBLE TRIODE

Indirectly heated—for parallel operation

REPLACEMENT TYPE ←

RATING

Heater Voltage (volts)	V_h	6.3
Heater Current (amps)	I_h	0.4
Maximum Anode Voltage (volts)	$V_{a(max)}$	250
Mutual Conductance (mA/V)	g_m	3.3*
Amplification Factor	μ	55*
Anode Impedance (ohms)	r_a	16,000*
Maximum Anode Dissipation (each section (watts))	$P_{a(max)}$	1.5
Maximum Potential Heater/Cathode (volts DC)	$V_{h\text{-}k(max)}$	150

* Taken at V_a=200V ; I_a=5mA.

INTER-ELECTRODE CAPACITANCES (pF)

		*	§
Grid 1/Anode 1	$c_{g'\text{-}a'}$	2.5	2.7
Grid 2/Anode 2	$c_{g''\text{-}a''}$	2.5	2.7
Grid 1/Earth	$c_{g'\text{-}E}$	2.8	4.1
Grid 2/Earth	$c_{g''\text{-}E}$	2.9	4.2
Anode 1/Earth	$c_{a'\text{-}E}$	2.5	3.8
Anode 2/Earth	$c_{a''\text{-}E}$	2.3	3.6
Anode 1/Anode 2	$c_{a'\text{-}a''}$	0.65	0.65
Grid 1/Grid 2	$c_{g'\text{-}g''}$	0.014	0.015
Grid 1/Anode 2	$c_{g'\text{-}a''}$	0.038	0·039
Grid 2/Anode 1	$c_{g''\text{-}a'}$	0.06	0.07

* Inter-electrode capacitances with holder capacitance balanced out.

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

" Earth " denotes electrodes of any second valve section and the remaining earthy potential electrodes of the section under measurement and heater joined to cathode.

Indicates a change ←

6L19

EDISWAN

MAZDA

6L19

DOUBLE TRIODE

Indirectly heated—for parallel 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 Nett Weight (ozs)	¾
Approximate Packed Weight (ozs)	1

MOUNTING POSITION—Unrestricted.

TYPICAL OPERATION—As	Resistance Amplifier*	Capacity Coupled
H.T. applied Voltage	260	260
Decoupling resistance (ohms)	22,000	22,000
Anode load resistance (ohms)	47,000	100,000
Cathode self bias resistance (ohms)	1,200	1,800
Anode Current (mA)	1.7	1.1
§Voltage Amplification	34	38
§Output Voltage (RMS) for 2½% Second Harmonic	18.5	22

§ When feeding into 470,000 ohms in the grid circuit of the following valve.

* The figures quoted are for one valve section.

BULB—Clear

Indicates a change ←

EDISWAN

MAZDA

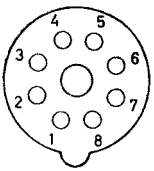
6L19

DOUBLE TRIODE

Indirectly heated—for parallel operation

REPLACEMENT TYPE ←

BASE—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 ←

EDISWAN

MAZDA

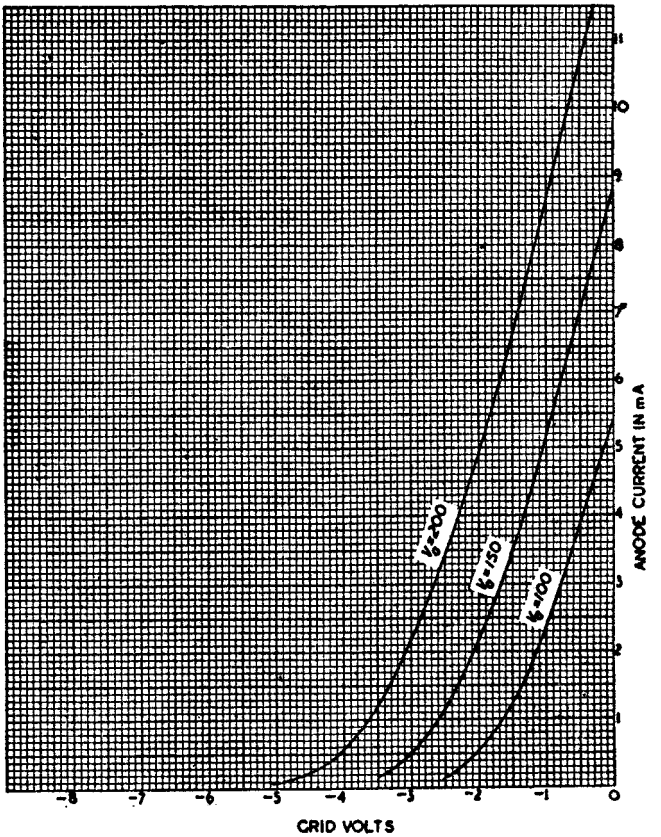
6L19

DOUBLE TRIODE

Indirectly heated—for parallel operation

REPLACEMENT TYPE ←

AVERAGE CHARACTERISTIC CURVES



Indicates a change ←

EDISWAN

MAZDA

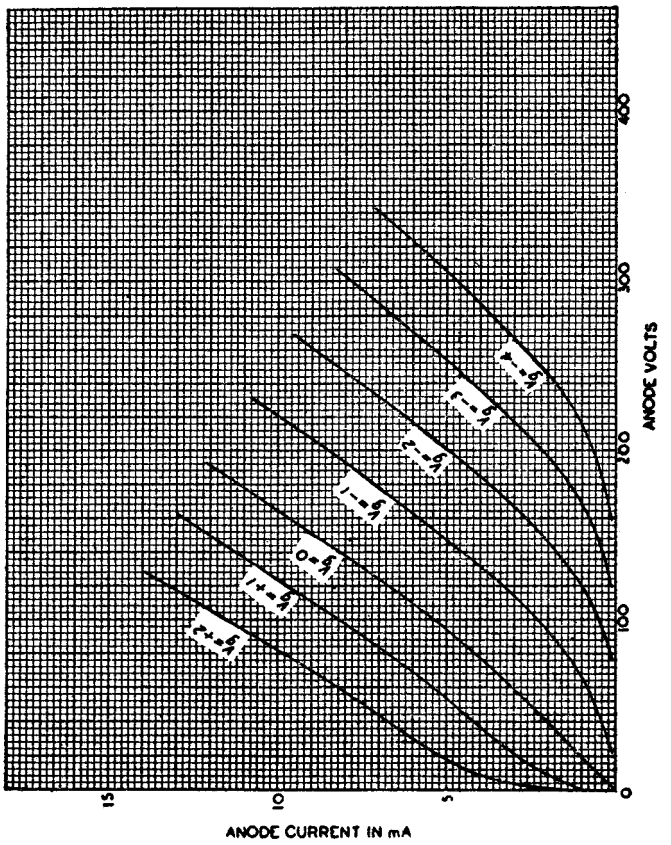
6L19

DOUBLE TRIODE

Indirectly heated—for parallel operation

REPLACEMENT TYPE ←

AVERAGE CHARACTERISTIC CURVES



Indicates a change ←

6L19

EDISWAN

MAZDA

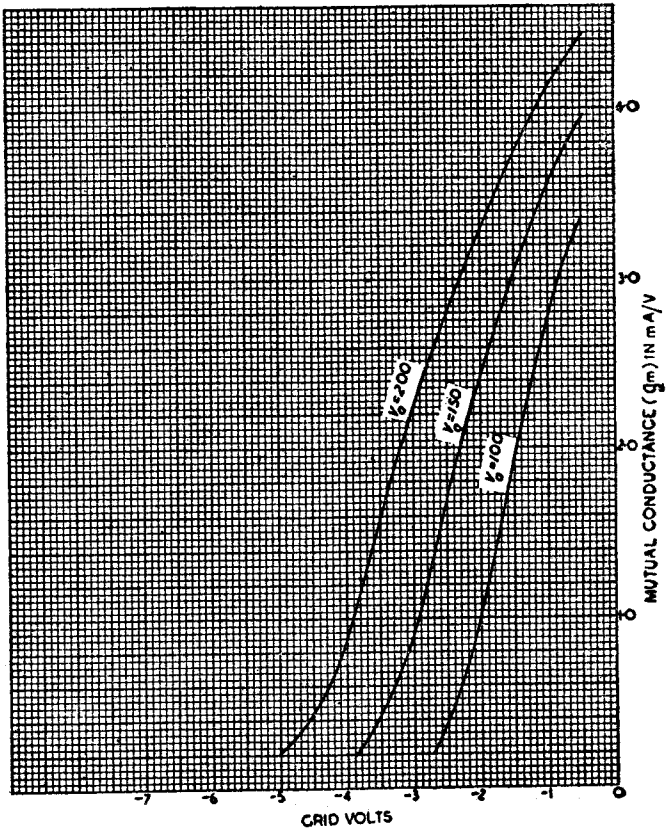
6L19

DOUBLE TRIODE

Indirectly heated—for parallel operation

REPLACEMENT TYPE ←

AVERAGE CHARACTERISTIC CURVES



Indicates a change ←