

**MAZDA**

6.L.18

**TRIODE OSCILLATOR**

Indirectly heated - for parallel operation

RATING

Heater Voltage (volts)	$V_h$	6.3
Heater Current (amps)	$I_h$	0.3
Maximum Anode Voltage (volts)	$V_a(\max)$	250
Mutual Conductance (mA/V)	$g_m$	7.6
Anode Impedance (ohms)	$r_a$	2250
Amplification Factor	$\mu$	17
Maximum Anode Dissipation (watts)	$w_a(\max)$	5.0
Maximum Potential Heater/Cathode (volts DC)	$V_{h-k}(\max)$	150

\* Taken at  $V_a = 150$  v;  $I_a = 25$  mA.

INTER-ELECTRODE CAPACITANCES

	$b$	$\dagger$
Anode/Earth ( $\mu\text{F}$ )	$c_{out}$	6.0
Anode/Grid ( $\mu\text{F}$ )	$c_{a-g}$	2.6
Grid/Earth ( $\mu\text{F}$ )	$c_{in}$	4.6
		5.9

$b$  Inter-electrode capacitances with holder capacitance balanced out.

$\dagger$  Total capacitances including Benjamin B.S.A. moulded holder measured at 1 Mc/s.

"Earth" denotes the remaining earthy potential electrodes, shields and heater joined to cathode.

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)	$\frac{3}{4}$
Approximate Packed Weight (ozs)	1

MOUNTING POSITION - Unrestricted.

# MAZDA

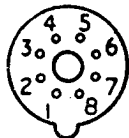
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BULB Clear

BASE B.S.A.



Viewed from free end of pins.

### CONNEXIONS

Pin 1	Heater	h
Pin 2	Anode	a
Pin 3	Internal Connexion §	
Pin 4	Internal Shield	s
Pin 5	Internal Connexion §	
Pin 6	Grid	g1
Pin 7	Cathode	k
Pin 8	Heater	h

§ "Internal Connexion" indicates that the pin is connected to an electrode for the purpose of improving mechanical rigidity. The connexion may not always be made to the same electrode on a given valve type, and it is essential that the corresponding valve holder socket be left unconnected.

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CHARACTERISTIC CURVES OF AVERAGE

**MAZDA VALVE 6L18**

