

# **HL.133 DD**

# A.C./D.C. MAINS DOUBLE DIODE TRIODE

## RATING.

Heater Voltage	 			 13.0
Heater Current (Amps)	 	•••	• • •	 0.2
Maximum Anode Voltage	 		.,.	 250
*Mutual Conductance (mA/V)	 	•••	•••	 2.5
*Amplification Factor	 			 32
*Anode A.C. Resistance (Ohms)	 	• • •		 12,800
	 _	^		

\* at Ea = 100; Eg = 0.

## **OPERATING CONDITIONS.**

H.T. Supply						165	185
Decoupling Resistance (	ohms.)					10,000	10,000
	•••				!	50,000	50,000
Anode Current (mA)						I · 25	1.45
Grid Bias Voltage						2.2	2.5
Self-Bias Resistance (ohn	ns)					1,750	1,750
Voltage Amplification						20	21
Maximum Output Volts	R.M.S.	for 28	% Hari	monic	Conte	ent 22 }	27

## INTER-ELECTRODE CAPACITIES.

Anode to Cathode		•••				$4.5 \mu\mu$ F
Grid to Cathode	• • • •	•••	• • • •	• • • •	• • •	3.5 $\mu\mu$ F
Anode to Grid						$3.5~\mu\mu$ F
*Diode I to Earth						$3.25 \mu \mu$ F
*Diode 2 to Earth						$3.25~\mu\mu$ F
Diode I to Diode 2						0⋅6 μμϜ

\* "Earth" denotes the electrodes of any second valve section and the remaining earthy potential electrodes of the section under measurement, H. and M. joined to cathode.

### DIMENSIONS.

Maximum overall lengtl	١	 	 	105 mm.
Maximum diameter		 	 	32 mm

#### GENERAL.

The HL.133DD is an indirectly heated double diode triode for use in D.C., A.C./D.C. mains, and car radio receivers. It consists of two separate diodes and a triode on a common cathode sleeve. The bulb is of small dimensions and metallised. The valve is fitted with a British Octal Base, the connections to which are given overleaf.

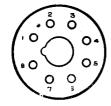
### APPLICATION.

The HL.133DD is recommended for performing the simultaneous functions of A.V.C., detection and amplification. When the valve is used for detection, only D2 (pin No. 5) should be used for the purpose. If the other diode is not required, it should be connected to the cathode. The control grid should be biased by means of a self-bias resistance which should be by-passed with a condenser of 25-50 mFd.

EDISWAN RADIO



## BASING.



Viewed from the free end of the base.

Pin No. 1. Heater.
2. Cathode.
3. Anode.
4. —
5. D2.
6. Metallising.
7. D1.
8. Heater.
Top Cap Control Grid.

