TYPE D41
DOUBLE DIODE
With Indirectly Heated Cathode

The OSRAM D41 is a Double Diode Valve for use as a combined Detector and Automatic Volume Control Valve in radio receivers. Its filament rating makes it suitable for either parallel or series filament running so that it can be used with the 4-volt or 0.3 ampere ranges of valves respectively.

A diode such as the D41 is the ideal Detector Valve as it provides practically perfect undistorted detection when operated at suitable values of input voltage.

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>A.C. volts R.M.S.</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. average current in microamps</td>
<td>25</td>
<td>52</td>
<td>78</td>
<td>100</td>
<td>130</td>
</tr>
</tbody>
</table>

Max. L.F. volts when fed at 30% modulation .. .. .. .. 7 volts peak

**Interelectrode Capacities:**

- Diode (1) to Cathode (others earthed) .. .. .. .. .. 3.5 m.mfd. approx.
- Diode (2) to Cathode (others earthed) .. .. .. .. .. 2.5 m.mfd. „
- Diode to Diode .. .. .. .. .. .. .. 0.5 m.mfd. „

(Taken on Metallised Valve)

For prices see pages 126–129.

BASE 5-PIN.
1: Diode
2: Diode
3: Heater
4: Heater
5: Cathode and Metallising

View looking on underside of valve base

Type D41 is supplied in metallised or clear bulb according to requirements.
TYPE D41

\[ R = \text{Value depending on delay voltage required} \]
\[ \text{where delay volts} = \frac{R}{R + 0.25\Omega} \times \text{H.T. volts.} \]

A typical circuit for D41 operating as Detector and for delayed A.V.C. feeding into N4l output Pentode is shown above.

AVERAGE CHARACTERISTIC CURVE.