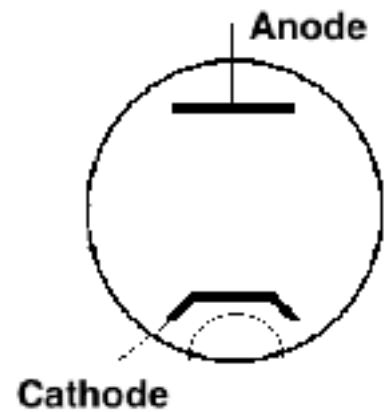


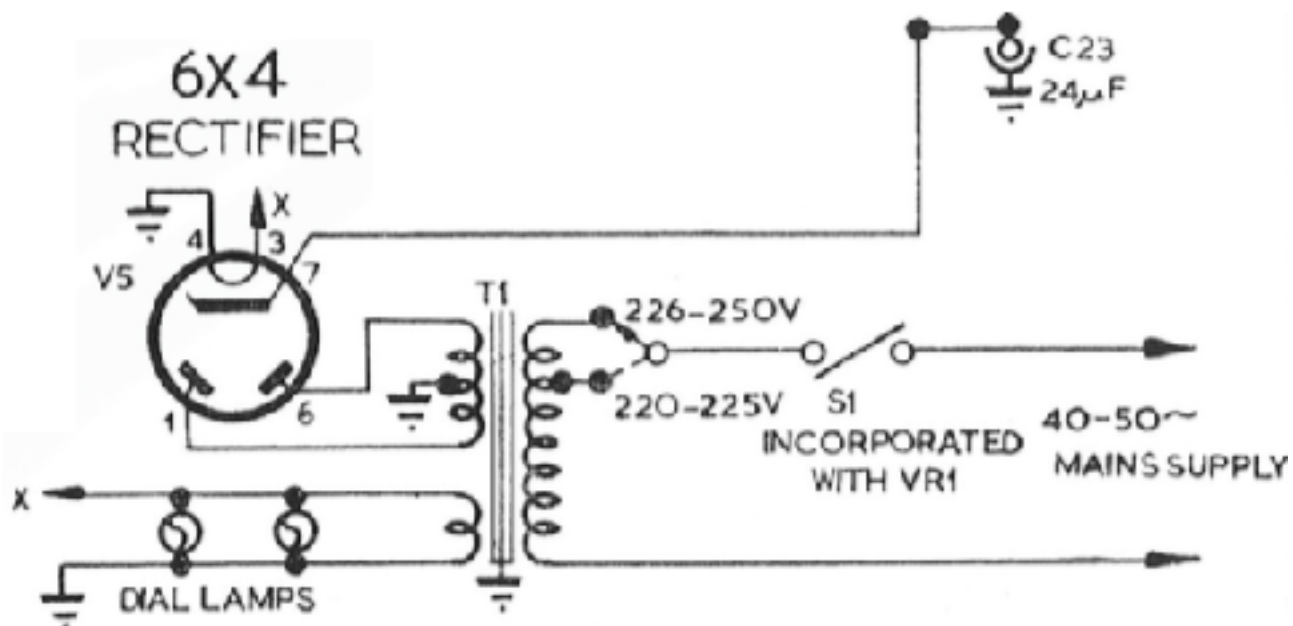
# Diode

- Two Electrodes (*diode*).
- Normally used as rectifiers, radio detectors.
- Often packaged as a dual diode.



The Cathode emits electrons when heated which will flow to the Anode if a positive voltage (with respect to the cathode) is applied. Current will not flow in the reverse direction. This makes the diode suitable for use as a rectifier and radio detector.

## Example Circuit



The 6X4 is a dual diode valve and in the above circuit it implemented as a full wave bridge rectifier. The anodes of both diodes are connected to opposite ends of the centre tapped secondary winding with the actual centre tap grounded. The cathode of the diodes is connected to capacitor C23.

Thus with each half cycle one diode will be conducting and charging C23. In this case C23 is the main HT supply filter capacitor with additional supply voltages being derived from it.