

Bridge Rectifier

Bridge Rectifier: Bridge rectifier using four diode in bridge rectifier does not need center tapped transformer. When a is positive with respect b diodes D1, D2 conduct together so that output voltage is V_{ab} . Each of the diodes D3 and D4 is subjected to a reverse voltage of V_s . When b is positive with respect to diodes D3, D4 conduct together and output voltage is V_{ba} . Each of the two diodes D1 and D2 are reverse voltage of V_s .

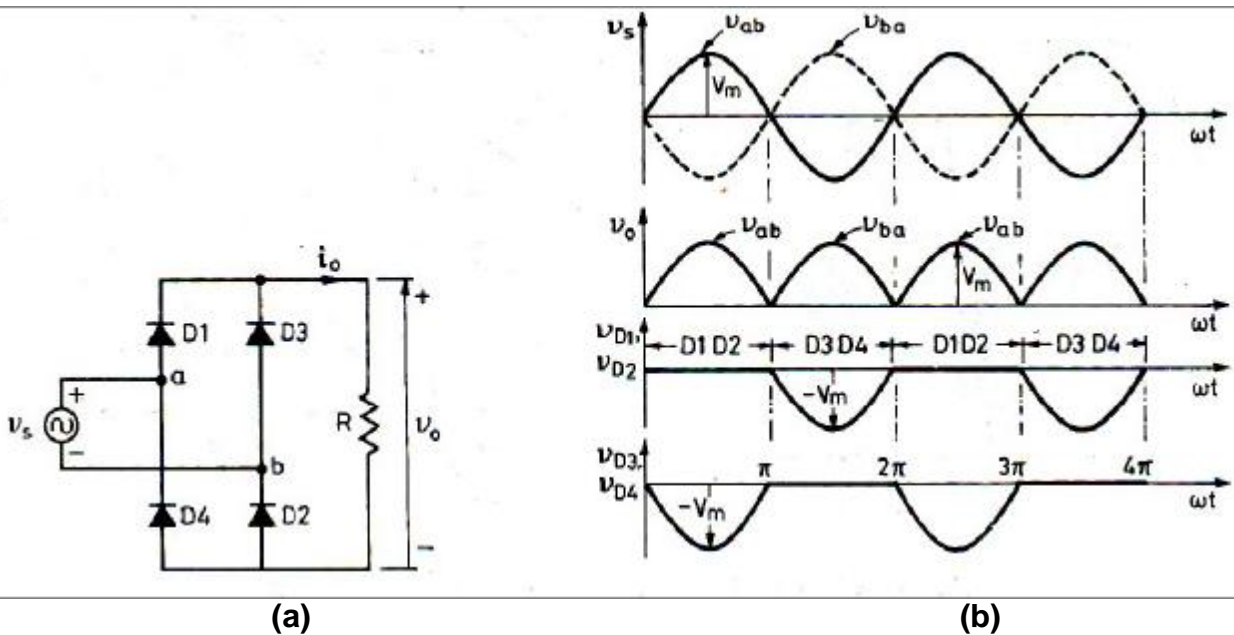


Fig.(a) Bridge Rectifier (b) Waveform of Bridge Rectifier

In full wave rectifier PIV of $2V_m$. Whereas in bridge rectifier has PIV of V_m only.