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- During the negative half cycle of the input voltage, the upper transistor is driven into saturation & the lower transistor cuts off.
- As a result, the voltage output from the circuit alternates between 0 and $+V_{cc}$.
- This square wave is given as input to a high Q series resonance circuit which will transmit the fundamental freq. alone while blocking the harmonics.
- The square wave at the output of push-pull amplifier can be expressed as

$$V_c = 0.636 V_{cc} \left(\sin \theta + \frac{\sin 3\theta}{3} + \frac{\sin 5\theta}{5} + \dots \right)$$

- The voltage output from the circuit which is almost a sine wave is given by.

$$V_{out} = 0.636 V_{cc} \sin \theta$$

- Thus, the maximum value of the o/p sine wave is $0.636 V_{cc}$.