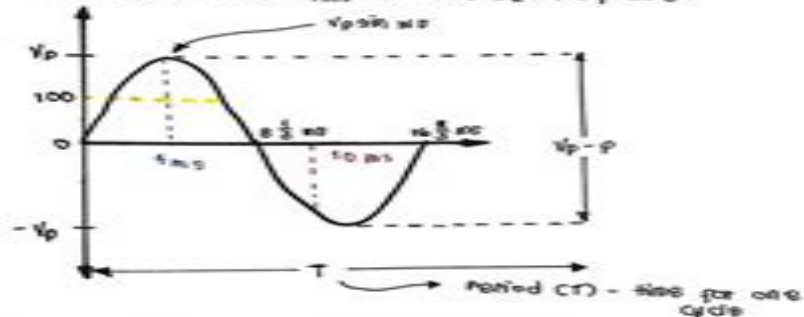


# 06 ALTERNATING CURRENT FUNDAMENTALS

AC source is 220 V<sub>rms</sub> at 60 Hz frequency



$$V_{peak} = \sqrt{2} V_{rms} \quad \text{root mean square}$$

$$V_{peak} = \sqrt{2} (220)$$

$$V_{peak} = 311.13 \text{ V}_p$$

$$V_{p-p} = 2 V_p$$

$$V_{p-p} = 2 (311.13)$$

$$V_{p-p} = 622.26 \text{ V}_{p-p}$$

$$T = \frac{1}{f}$$

$$= \frac{1}{60 \text{ Hz}}$$

$$T = 16 \frac{2}{3} \text{ ms}$$

Find V at 4 ms

$$V_{4ms} = V_p \sin \omega t$$

$$= 311.13 \sin 2\pi(60)t$$

$$= 311.13 \sin 120\pi t$$

$$= 311.13 \sin 120\pi(4ms)$$

$$V_{4ms} = 310.52 \text{ V}$$

Find V at 10 ms

$$V_{10ms} = V_p \sin \omega t$$

$$= 311.13 \sin [180(180)(4 \times 10^{-3})]$$

$$= 311.13 \sin (86.40^\circ)$$

$$V_{10ms} = 310.52 \text{ V}$$

Find V at 10 ms

$$V_{10ms} = V_p \sin \omega t$$

$$= 311.13 \sin 120\pi(10ms)$$

$$V_{10ms} = -182.88 \text{ V}$$

Find  $t_1$  and  $t_2$  when  $V = 100 \text{ V}$

$$100 = 311.13 \sin 120\pi t$$

$$\left[ \frac{100}{311.13} = \sin 120\pi t \right] \sin^{-1}$$

$$\sin^{-1} \frac{100}{311.13} = 120\pi t$$

$$t_1 = \frac{\sin^{-1} \frac{100}{311.13}}{120\pi}$$

$$t_1 = 0.87 \text{ ms}$$

$$t_2 = \frac{8 \frac{1}{3}}{2} - t_1$$

$$= 8 \frac{1}{3} - 0.87$$

$$t_2 = 7.46 \text{ ms}$$

Checking:

$$t_1 = 311.13 \sin 120\pi(0.87 \text{ ms})$$

$$V = 100.225 \text{ V}$$

$$t_2 = 311.13 \sin 120\pi(7.46 \text{ ms})$$

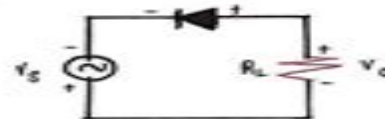
$$V = 100.6 \text{ V}$$

## DIODES USED IN AC APPLICATIONS

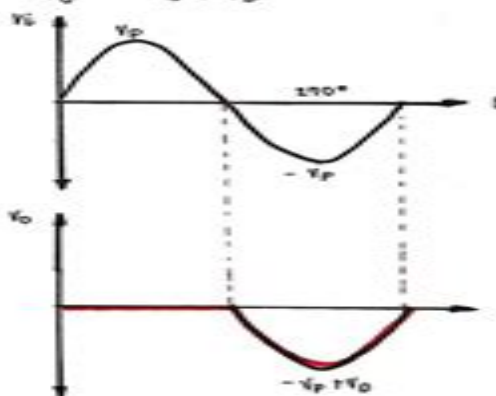
1. Clipper circuits
  - are electronic circuits that removes certain portion of the input signal; "clip off"
  - a. Series Clipper Circuits - the diode is in series between the input and the output
  - Series Positive Clipper - positive portion is removed



⊕ cycle (D is off)  
 $V_O = 0 \text{ V}$



⊖ cycle (D is on)  
 $-V_S + V_p - V_O = 0$   
 $V_O = -V_S + V_p$



If  $V_S$  is 5 V<sub>rms</sub>, plot the output voltage,  $V_O$  using silicon diodes

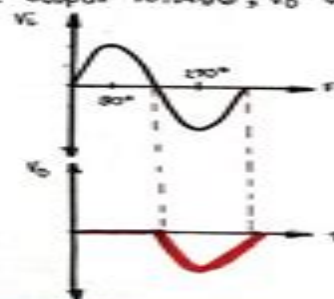
$$V_p = \sqrt{2} V_{rms}$$

$$= \sqrt{2} (5)$$

$$V_p = 7.07 \text{ V}_p$$

⊕ cycle  
 $V_O = 0 \text{ V}$

⊖ cycle:  $V_O = -V_S + V_D$   
at  $180^\circ$   
 $V_O = -V_p + V_D$   
 $V_O = -(7.07 \text{ V}) + 0.7 \text{ V}$   
 $V_O = -6.37 \text{ V}_p$



# Alternating Current Fundamentals 3ed

**Harold Clampitt**



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