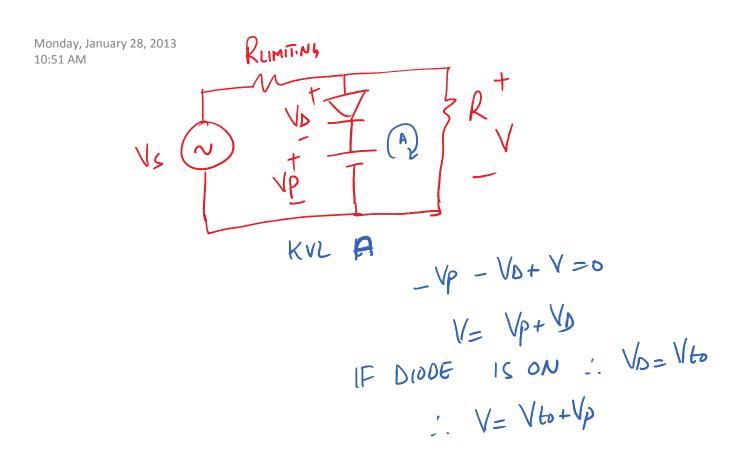
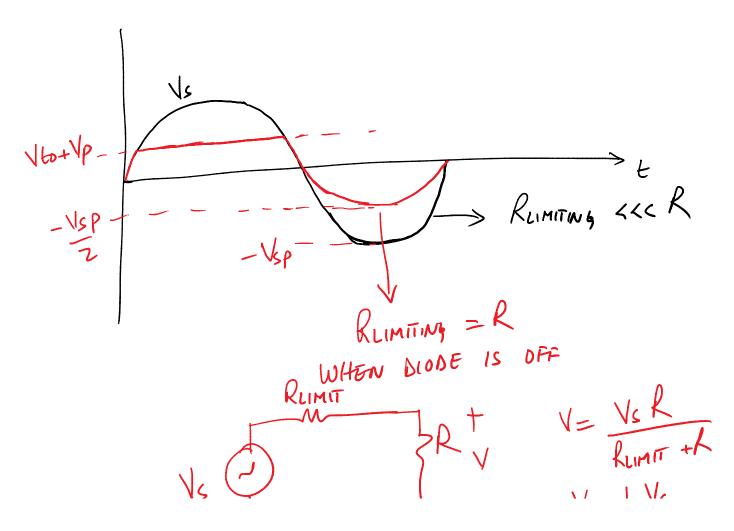
LECTURE-19 CLIPPER OR LIMITER DIODE AS A TURN ON VOLTAGE DIODE REVERSE CAT. CURRENT To KLIMITING WHEN THE DIODE HE IS TURNED ON THI Vo= Vto -> DIODE AND VP ACT Vs < (Vb+Vp) AS OPEN CIRCUIT : V FOLLOWS Va

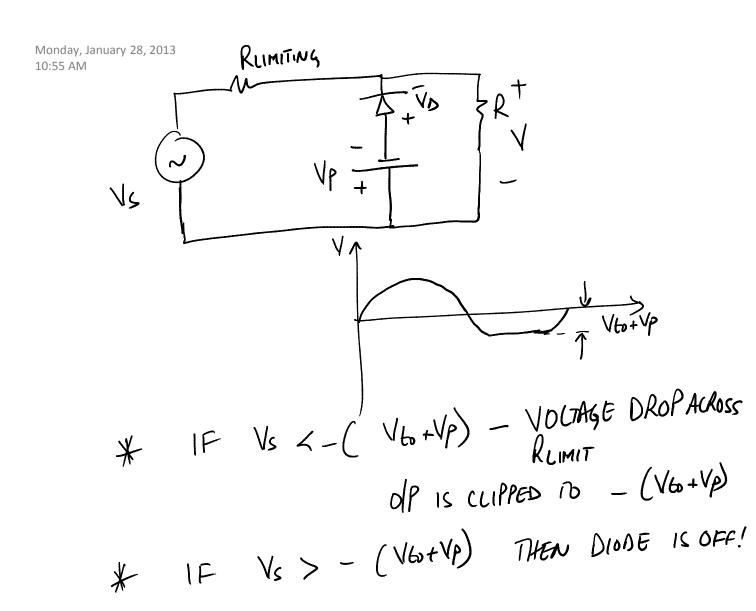
2)
$$V_S > (V_{bo} + V_{p}) + SOME BROP ACROSSRUMITINGDIODE IS ON -> OUTPUT IS CLIPPED TOV_b+V_p=V$$

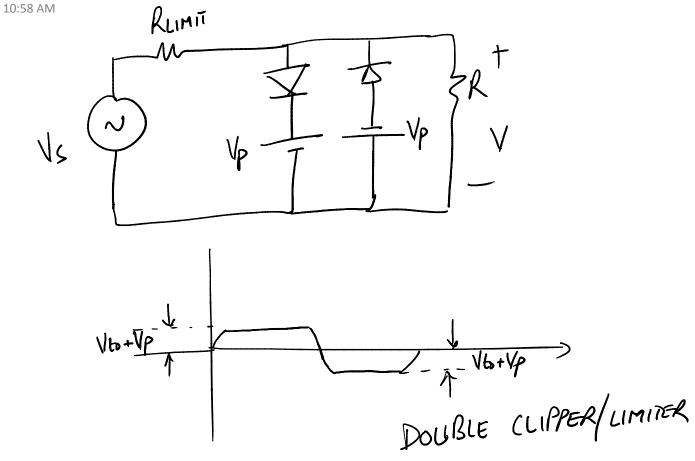


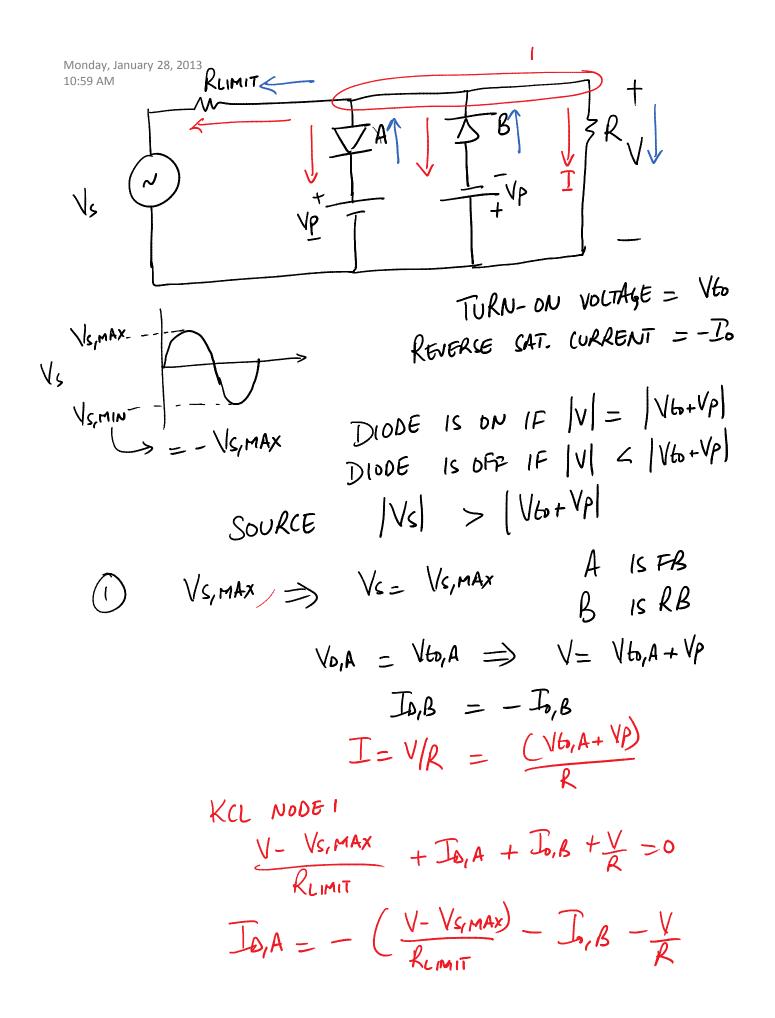




 $V = \frac{1}{2} V_s$







FOR
$$V_S = -V_{S,MAX}$$

DIODE A IS RB, DIODE B IS FB

 $J_{O_1A} = -J_{O_1A}$
 $V_{D_1B} = V_{O_1B}$
 $V = -\left(\frac{V_{O_1B} + V_P}{R}\right)$
 $I = \frac{V}{R} = -\frac{\left(\frac{V_{O_1B} + V_P}{R}\right)}{R}$

KCL AT NODE I TO FIND J_{O_1B}
 $V + V_{S,MAX} - J_{O_1A} + \frac{V}{R} = 0$

Rumit

 $J_{O_1B} = \frac{V + V_{S,MAX}}{R_{J_{S,MAX}}} - J_{O_1A} + \frac{V}{R}$

