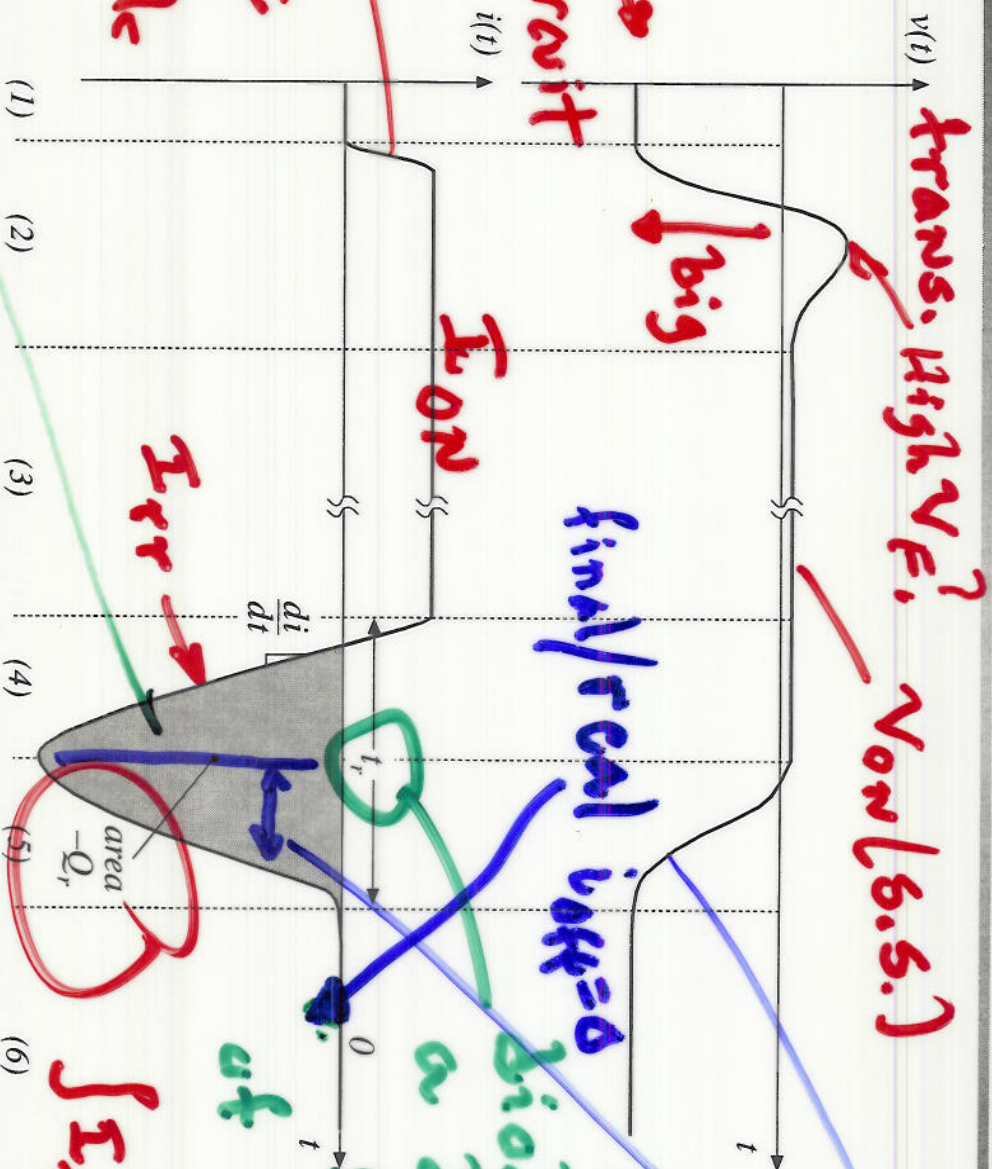


Fig 4.25 976

Typical diode switching waveforms

Drive diode with i observe $v(t)$



V_{off} reverse bias set by circuit

$\int I_{on} V_{on} dt$ is negligible

trans. High V_F ? V_{on} (S.S.)

big

I_{ON}

final/real $i_{off} = 0$

Note: diode is not a diode

for period

of "recovery"

$\int I_{rr} dt = Q_r$

loss

Fundamentals of Power Electronics
Qrr & $\int I_{rr} dt$ increases loss
on transistor off-on

$E_{loss} = \int I_{rr} V_{off} dt = Q_r V_{off}$