Power

Monday, February 22, 2010

Total Enogy H->L->4 (1 transitor asch)

> Edgyaniz 2 Cz VDO 2 Polyvanz = C2 10, 2 f1,0

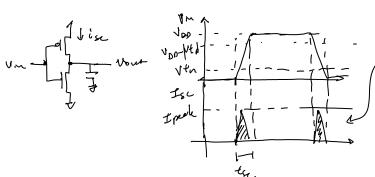
frequency of energy consuming transitions Paymanic = CL VOW of . PLOO MONT

= Vor 2f. Ceff (Ceff = Cz. Po-si Coupus)

To betwe Polynam:

free &, Vood, Ted

Short Corout Current



There are 2 toranges, so for the whole transition is de

Esc = Vpo I peak to

Assumy Ivea riatell corve:

Prc = Vop Tpech tec f

Assumy I wear rice I fell cerve:

$$tsc = \frac{voo - v\tau_n - (v\tau_p)}{voo} \cdot too > voo$$

$$tsc = \frac{voo - v\tau_n - (v\tau_p)}{voo} \cdot too > voo$$

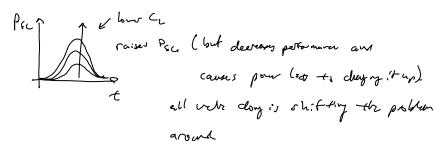
$$tr = voo + vo$$

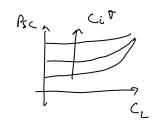
PSC = VOD Ippek of VOD-2UT . to

How to reduce Pcc?

≥ Vood Voo <2U7 LJ toll super foot

If Co is low every, most of the every good chare it up as opposed to short-circulty.





as your rise time increases (Ci),

Pre gets worse

C,

3 types of power

Pdynamic - circuit is doing work , pour loss is ohe Psc -> sad, but mostly unawidall

Plealoge - almost equal to Polynom in deep submison

powerhearty BJT's (80's)

We're in big trouble!

We're squeezy the lat down at of ones

to makey creen power conversely should