

$$I_c = C \frac{dV}{dt} \approx C \frac{\Delta V}{\Delta t}$$

$$\Delta t = C \Delta V$$

Let
$$I_c = 1A$$
, $\Delta V = 10 V$, $C = 200 pF$. $\Delta t = 2 ns$.

$$3. At = AR = 40 nC = 40 ns.$$

Even a 1 A drive current isn't enough to reach the claimed \approx 25 ns capability of the device.