NMOS Memory

WRITE

\[ R_{gs} = 10^{12} \Omega \]

READ

1\(\mu\)F
$R_{ds(on)}$ for MOSFET

\[\text{Slope} = \frac{1}{R_{ds(on)}}\]
Silicon Controlled Rectifier

- Anode
- Gate
- Cathode

- p type Si
- n type Si
SCR Equivalent Circuit
Triac

M2  G  M1

M2

G

M1

p type Si  n type Si
Switching Power Supply

\[ V_{in} \rightarrow PWM \rightarrow V_{out} \]
Power Amplifier