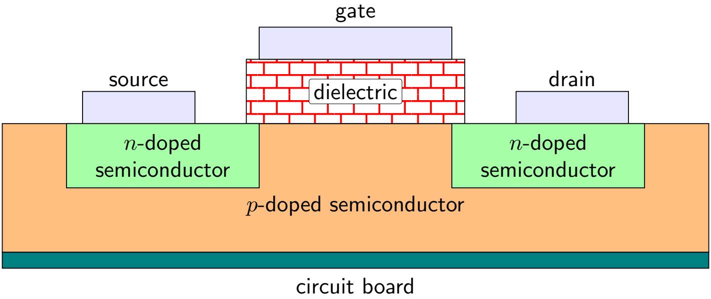
gate
source
dielectric
drain
n-doped semiconductor
n-doped semiconductor
p-doped semiconductor
circuit board

n-channel MOSFET