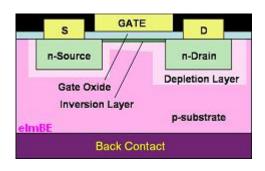
2025/11/05 15:20 1/3 MOSFET

MOSFET



MOSFET(Metal-Oxide Semiconductor Field Effect Transistor) MOS , , , , , source drain

gate .

. MOS

가 .

MOS gate, source, drain 3 . bipolar

base,emitter,collector . MOS source drain

gate

Bipolar MOS gate 가 가

.

Bipolar 가 base 가 MOS .Gate gate gate 가 drain . 🛮 Source Ρ Ν MOS Р **MOSFET PMOS** source drain Ν N MOSFET **NMOS**

MOS .

gate 가 gate

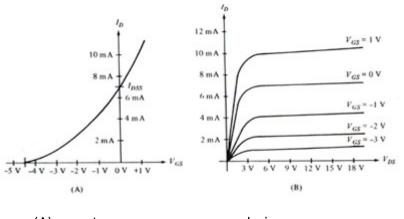
NMOS gate (+) 가

gate (+)가 가 NMOS source drain (-)가 가

.Gate (+) 가

. MOS enhancement-mode MOS

가 .



(A) gate (+,-)가

(B)

drain-source . JFET . Gate-Source

•

MOSFET가

drain-source

3V gate

MOSFET

MOSFET . source,drain

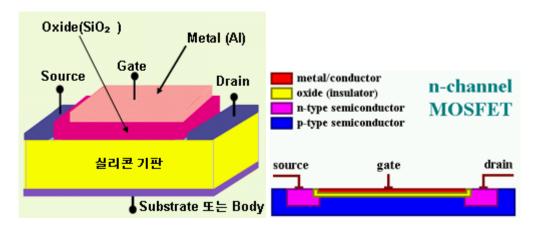
. Gate Al

SiO2가 MOS .

. gate (+),(-)가 가 . 기 . 1013Ω .

. substrate 가

source .

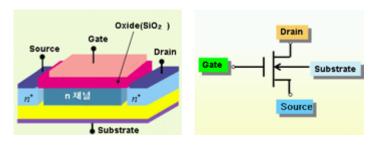


MOSFET

Depletion MOSFET

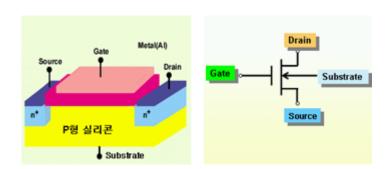
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2025/11/05 15:20 3/3 MOSFET



, Gate . Depletion MOSFET source-drain . source-drain

Enhancement MOSFET



. gate . , gate source-drain 가 . gate
. P N Inverse Layer

• Semipark

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