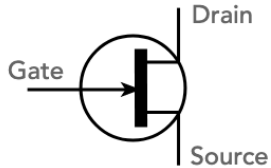
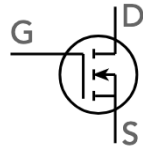


FETs



N channel JFET



N channel enhancement insulated MOSFET

From electronics notes

- Small signal model
- $i_D = i_{DSS}(1 - \frac{V_{GS}}{V_p})^2, 0 \leq V_{GS} \leq V_p$
- Ohmic ($V_{DS} < 1.8$), $R_{GS} = \frac{k}{g_m} V_{GS}$.
- Saturation ($V_{DS} > 2$), $i_d = g_m V_{GS}$
- For 2N-7000, $I_{DSS} = 60$, $g_m = 320$
- JFETs generally don't operate in enhancement mode ($V_{GS} < 0$)

